WO 98/17267

(51) International Patent Classification 6 :



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(11) International Publication Number:

	A61K 31/165, 31/215, 31/415, 31/42, 31/425, 31/505, 31/53, 31/535,	31/44, 31/47,	A1	(4	30 April 1998 (30.04.98)			
	08/735,873 2: 08/735,881 2: 08/736,222 2: 08/736,221 2: 08/736,221 2: 08/735,870 2: 08/735,876 2: 08/736,220 2: 08/736,319 2: 08/735,874 2:		23.10.9 U	JS JS JS JS JS JS JS JS JS JS JS JS JS J	(75) Inventors; and (75) Inventors'Applicants (for US only): ORME, Mark, W. (US/US): 636 N.W. 98th Street, Seattle, WA. 981.17 (US). BAINDUR, Nand [IN/US]: 1919.95 rib Place West, Edmonds, WA. 98026 (US). ROBBINS, Kirk. G. (US/US): 1200 Grant Avenue Sowth #Y-304, Renton, WA. 98053 (US). HARRIS, Scott, M. [US/US]: 6825 31st Avenue N.E. Seattle, WA. 98151 (US). KONTOYIANNI, Maria (GR/US): 769 Hayes Street #504, Seattle, WA. 98160 (US). HURLEY, Laurence, H. [US/US]: 9319 Konthwest Place, Austin, TX 78731 (US). KERWIN, Sean, M. [US/US): 703 Ivy Court, Round Rock, TX 78681 (US). MUNDY). Gregory, R. [US/US]: 3719 Morgan's Cleek, San Antonio, TX 78220 (US). PETRIE, Charles (US/US): 18459 N.E. 196th Place, Woodinville, WA. 98072 (US). (74) Agents: MURASHIGE, Katel, H. et al., Morrison & Foenster LLP, 2000 Pennsylvania Avenue, N.W., Washington, D.C. 20006-1888 (US).			
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Published

With international search report.

MR, NE, SN, TD, TG).

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML,

(54) Title: COMPOSITIONS AND METHODS FOR TREATING BONE DEFICIT CONDITIONS

(57) Abstract

Compounds containing two aromatic systems covalently linked through a linker containing one or more atoms, or "linker" defined as including a covalent bond per se so as to space the aromatic systems at a distance I.5-15Å, are effective in treating conditions associated with bone deficits. The compounds can be administered to vertebrate subjects alone or in combination with additional agents that promote bone growth or that inhibit bone resorption. They can be screened for activity prior to administration by assessing their ability to effect the transcription of a reporter gene coupled to a promoter associated with a bone morphogenetic protein and/or their ability to stimulate calvarial growth in model animal systems.

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COMPOSITIONS AND METHODS FOR TREATING BONE DEFICIT CONDITIONS

Technical Field

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The invention relates to compositions and methods for use in limiting undesired bone loss in a vertebrate at risk of such bone loss, in treating conditions that are characterized by undesired bone loss or by the need for bone growth, in treating fractures, and in treating cartilage disorders. More specifically, the invention concerns the use of specific classes of compounds identified or characterized by a high throughput screening assay.

Background Art

Bone is not a static tissue. It is subject to constant breakdown and resynthesis in a complex process mediated by osteoblasts, which produce new bone, and osteoclasts, which destroy bone. The activities of these cells are regulated by a large number of cytokines and growth factors, many of which have now been identified and cloned. Mundy has described the current knowledge related to these factors (Mundy, G.R. Clin Orthop 324:24-28, 1996; Mundy, G.R. J Bone Miner Res 8:S505-10, 1993).

Although there is a great deal of information available on the factors which influence the breakdown and resorption of bone, information on growth factors which stimulate the formation of new bone is more limited. Investigators have searched for sources of such activities, and have found that bone tissue itself is a storehouse for factors which have the capacity for stimulating bone cells. Thus, extracts of bovine bone tissue obtained from slaughterhouses contain not only structural proteins which are responsible for maintaining the structural integrity of bone, but also biologically active bone growth factors which can stimulate bone cells to proliferate. Among these latter factors are transforming growth factor \(\mathbb{B}, \) the heparin-binding growth factors (acidic and basic fibroblast growth factor), the insulin-like growth factors (insulin-like growth factor I and insulin-like growth factor II), and a recently described family of

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proteins called bone morphogenetic proteins (BMPs). All of these growth factors have effects on other types of cells, as well as on bone cells.

The BMPs are novel factors in the extended transforming growth factor ß superfamily. They were first identified by Wozney J. et al. Science (1988) 242:1528-34, using gene cloning techniques, following earlier descriptions characterizing the biological activity in extracts of demineralized bone (Urist M. Science (1965) 150:893-99). Recombinant BMP2 and BMP4 can induce new bone formation when they are injected locally into the subcutaneous tissues of rats (Wozney J. Molec Reprod Dev (1992) 32:160-67). These factors are expressed by normal osteoblasts as they differentiate, and have been shown to stimulate osteoblast differentiation and bone nodule formation in vitro as well as bone formation in vivo (Harris S. et al. J. Bone Miner Res (1994) 9:855-63). This latter property suggests potential usefulness as therapeutic agents in diseases which result in bone loss

The cells which are responsible for forming bone are osteoblasts. As osteoblasts differentiate from precursors to mature bone-forming cells, they express and secrete a number of enzymes and structural proteins of the bone matrix, including Type-1 collagen, osteocalcin, osteopontin and alkaline phosphatase (Stein G. et al. Curr Opin Cell Biol (1990) 2:1018-27; Harris S. et al. (1994), supra). They also synthesize a number of growth regulatory peptides which are stored in the bone matrix, and are presumably responsible for normal bone formation. These growth regulatory peptides include the BMPs (Harris S. et al. (1994), supra). In studies of primary cultures of fetal rat calvarial osteoblasts, BMPs 1, 2, 3, 4, and 6 are expressed by cultured cells prior to the formation of mineralized bone nodules (Harris S. et al. (1994), supra). Like alkaline phosphatase, osteocalcin and osteopontin, the BMPs are expressed by cultured osteoblasts as they proliferate and differentiate.

Although the BMPs are potent stimulators of bone formation in vitro and in vivo, there are disadvantages to their use as therapeutic agents to enhance bone healing. Receptors for the bone morphogenetic proteins have been identified in many tissues, and the BMPs themselves are expressed in a large variety of tissues in specific temporal and spatial patterns. This suggests that BMPs may have effects on many

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tissues other than bone, potentially limiting their usefulness as therapeutic agents when administered systemically. Moreover, since they are peptides, they would have to be administered by injection. These disadvantages impose severe limitations to the development of BMPs as therapeutic agents.

There is a plethora of conditions which are characterized by the need to enhance bone formation. Perhaps the most obvious is the case of bone fractures, where it would be desirable to stimulate bone growth and to hasten and complete bone repair. Agents that enhance bone formation would also be useful in facial reconstruction procedures. Other bone deficit conditions include bone segmental defects, periodontal disease, metastatic bone disease, osteolytic bone disease and conditions where connective tissue repair would be beneficial, such as healing or regeneration of cartilage defects or injury. Also of great significance is the chronic condition of osteoporosis, including age-related osteoporosis and osteoporosis associated with postmenopausal hormone status. Other conditions characterized by the need for bone growth include primary and secondary hyperparathyroidism, disuse osteoporosis, diabetes-related osteoporosis, and glucocorticoid-related osteoporosis. In addition, or alternatively, the compounds of the present invention may modulate metabolism, proliferation and/or differentiation of normal or aberrant cells or tissues.

There are currently no satisfactory pharmaceutical approaches to managing any of these conditions. Bone fractures are still treated exclusively using casts, braces, anchoring devices and other strictly mechanical means. Further bone deterioration associated with postmenopausal osteoporosis has been decreased or prevented with estrogens or bisphosphonates.

US Patent 5, 280, 040 discloses a class of compounds which are 3, 4-diaryl chromans. These compounds can be considered derivatives of 2,3,4 triphenyl butanol, where the hydroxy at the 1-position forms an ether with the ortho position of the phenyl group substituted at the 4-position of the butanol. The parent 3,4-diaryl chromans do not contain nitrogen atoms in the aromatic moieties or their linkers. A preferred compound, centchroman, contains a nitrogen substituent only in one of the

substituents on a phenyl moiety. These compounds are disclosed in the '040 patent as useful in the treatment of osteoporosis.

In addition, the PCT application WO97/15308 published 1 May 1997 describes a number of classes of compounds that are active in the screening assay described below and are useful in treating bone disorders. These compounds, generically, are of the formulae

$$R^a_m \xrightarrow{Z}_{Z} L - Ar^2$$

wherein Ra is a non-interfering substituent:

m is an integer of 0-4;

each dotted line represents an optional π -bond;

each Z is independently N, NR, O, S, CR or CR_2 , where each R is

independently H or alkyl (1-6C);

X is O. S. SO or SO2:

L is a flexible linker; and

Ar2 is a substituted or unsubstituted 6-membered aromatic ring; or:

wherein Ra is a non-interfering substituent;

n is an integer of 0 and 5:

L is a flexible linker which does not contain nitrogen or is a constrained linker;

and

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 $\label{eq:Ar2} Ar^2 \ is \ a \ substituted \ or \ unsubstituted \ phenyl \ or \ a \ substituted \ or \ unsubstituted$ naphthyl.

There remains a need for additional compositions which can ameliorate the 25 effects of abnormalities in bone formation or resorption. The present invention expands the repertoire of compounds useful for limiting or treating bone deficit conditions, and for other uses that should be apparent to those skilled in the art from the teachings herein.

5 Disclosure of the Invention

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The invention provides compounds that can be administered as ordinary pharmaceuticals and have the metabolic effect of enhancing bone growth or inhibiting resorption. The compounds of the invention can be identified using an assay for their ability to activate control elements associated with bone anabolic factors. Thus, the invention is directed to methods and compositions for treating bone disorders, which methods and compositions use, as active ingredients, compounds wherein two aromatic systems are coupled so as to be spaced apart from each other by about 1.5 to about 15 Angstroms. The thus-linked systems (including the linker coupling them) preferably include at least one nitrogen atom.

Therefore, the compounds useful in the invention can be described as having the formula Ar¹-linker-Ar², wherein each of Ar¹ and Ar² is independently an aromatic system and the linker portion of the formula spaces Ar¹ and Ar² apart by a distance of approximately 1.5-15 Angstroms. Ar¹, Ar² and the linker may optionally be substituted with non interfering substituents. In the useful compounds, there is preferably at least one nitrogen atom in either Ar¹, Ar² and/or the linker, independent of any substituents thereon. Preferably, the compounds of the invention contain at least one additional heteroatom selected from the group consisting of N, S and O, independent of any substituent.

Thus, in one aspect, the invention is directed to a method to treat a condition in a vertebrate animal characterized by a deficiency in, or need for, bone growth replacement and/or an undesirable level of bone resorption, which method comprises administering to a vertebrate subject in need of such treatment an effective amount of certain compounds of the formula:

wherein each of Ar¹ and Ar² is independently substituted or unsubstituted phenyl, substituted or unsubstituted aromatic system containing a 6-membered heterocycle, or a substituted or unsubstituted aromatic system containing a 5-membered heterocycle; and

L is a linker that provides spacing of 1.5-15Å.

In other aspects, the invention relates to pharmaceutical compositions for use in the method, and to the compounds for use in preparing a medicament for use in the method.

10 Brief Description of the Drawings

Figure 1 gives a schematic representation of the compounds used as active ingredients in the methods and compositions of the invention.

Figure 2 shows the dose response curve for a positive control compound, designated 59-0008.

15 Figures 3 and 4 show illustrative compounds of the invention and the results obtained with them in an in vitro test for stimulation of bone growth.

Figures 5A, 5B and 5C show structures and results of a screening assay for a group of compounds which varies the parameters of lead compound 59-0072.

Figures 6A, 6B and 6C show structures and results of a screening assay for a group of compounds which varies the parameters of lead compound 50-0197.

Figure 7 shows structures and results of a screening assay for a group of compounds which varies the parameters of lead compound 59-0145.

Figures 8A, 8B and 8C show structures and results of a screening assay for a group of compounds which varies the parameters of lead compound 59-0045.

25 Figure 9 shows the results in an ex vivo calvarial assay for various compunds of the invention.

Figure 10 shows the increase in bone volume effected by subcutaneous administration of compound 59-0145 in the OVX in vivo assay.

Figure 11 is a graphical representation of percent increase in trabecular bone in
30 ovariectomized rats treated with compound 59-0145

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Figure 12 presents graphs showing results of qCT and bone histomorphometri and serum osteocalcin levels in rats treated with compound 59-0145.

Figure 13 (41 pages) is a list of compounds used in screening for bone morphogenic activity according to the screening assay set forth herein.

Modes of Carrying Out the Invention

A rapid throughput screening test for compounds capable of stimulating expression of a reporter gene linked to a BMP promoter (a surrogate for the production of bone morphogenetic factors that are endogenously produced) is described in WO96/38590 published 5 December 1996, the contents of which are incorporated herein by reference. This assay is also described as a portion of a study of immortalized murine osteoblasts (derived from a mouse expressing a transgene composed of a BMP2 promoter driving expression of T-antigen) in Ghosh-Choudhery, N. et al. Endocrinology (1996) 137:331-39. In this study, the immortalized cells were stably transfected with a plasmid containing a luciferase reporter gene driven by a mouse BMP2 promoter (-2736/114 bp), and responded in a dose-dependent manner to recombinant human BMP2.

Briefly, the assay utilizes cells transformed permanently or transiently with constructs in which the promoter of a bone morphogenetic protein, specifically BMP2 or BMP4, is coupled to a reporter gene, typically luciferase. These transformed cells are then evaluated for the production of the reporter gene product; compounds that activate the BMP promoter will drive production of the reporter protein, which can be readily assayed. Over 40,000 compounds have been subjected to this rapid screening technique, and only a very small percentage are able to elicit a level of production of luciferase 5-fold greater than that produced by vehicle. Compounds that activate the BMP promoter share certain structural characteristics not present in inactive compounds. The active compounds ("BMP promoter-active compounds" or "active compounds") are useful in promoting bone or cartilage growth, and thus in the treatment of vertebrates in need of bone or cartilage growth.

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BMP promoter-active compounds can be examined in a variety of other assays that test specificity and toxicity. For instance, nonBMP promoters or response elements can be linked to a reporter gene and inserted into an appropriate host cell. Cytotoxicity can be determined by visual or microscopic examination of BMP promoter- and/or nonBMP promoter-reporter gene-containing cells, for instance. Alternatively, nucleic acid and/or protein synthesis by the cells can be monitored. For in vivo assays, tissues may be removed and examined visually or microscopically, and optionally examined in conjunction with dyes or stains that facilitate histologic examination. In assessing in vivo assay results, it may also be useful to examine biodistribution of the test compound, using conventional medicinal chemistry/animal model techniques.

As used herein, "limit" or "limiting" and "treat" or "treatment" are interchangeable terms. The terms include a postponement of development of bone deficit symptoms and/or a reduction in the severity of such symptoms that will or are expected to develop. The terms further include ameliorating existing bone or cartilage deficit symptoms, preventing additional symptoms, ameliorating or preventing the underlying metabolic causes of symptoms, preventing or reversing bone resorption and/or encouraging bone growth. Thus, the terms denote that a beneficial result has been conferred on a vertebrate subject with a cartilage, bone or skeletal deficit, or with the potential to develop such deficit.

By "bone deficit" is meant an imbalance in the ratio of bone formation to bone resorption, such that, if unmodified, the subject will exhibit less bone than desirable, or the subject's bones will be less intact and coherent than desired. Bone deficit may also result from fracture, from surgical intervention or from dental or periodontal disease. By "cartilage defect" is meant damaged cartilage, less cartilage than desired, or cartilage that is less intact and coherent than desired.

Representative uses of the compounds of the present invention include: repair of bone defects and deficiencies, such as those occuring in closed, open and nonunion fractures; prophylactic use in closed and open fracture reduction; promotion of bone healing in plastic surgery; stimulation of bone ingrowth into noncemented prosthetic

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joints and dental implants; elevation of peak bone mass in premenopausal women; treatment of growth deficiencies; treatment of peridontal disease and defects, and other tooth repair processes; increase in bone formation during distraction osteogenesis; and treatment of other skeletal disorders, such as age-related osteoporosis, postmenopausal osteoporosis, glucocorticoid-induced osteoporosis or disuse osteoporosis and arthritis. The compounds of the present invention can also be useful in repair of congenital, trauma-induced or surgical resection of bone (for instance, for cancer treatment), and in cosmetic surgery. Further, the compounds of the present invention can be useful or limiting or treating cartilage defects or disorders, and may be useful in wound healing or tissue repair.

Bone or cartilage deficit or defect can be treated in vertebrate subjects by administering compounds of the invention which have been identified through suitable screening assays and which exhibit certain structural characteristics. The compositions of the invention may be administered systemically or locally. For systemic use, the compounds herein are formulated for parenteral (e.g., intravenous, subcutaneous, intramuscular, intraperitoneal, intranasal or transdermal) or enteral (e.g., oral or rectal) delivery according to conventional methods. Intravenous administration will be by a series of injections or by continuous infusion over an extended period. Administration by injection or other routes of discretely spaced administration will generally be performed at intervals ranging from weekly to once to three times daily. Alternatively, the compounds disclosed herein may be administered in a cyclical manner (administration of disclosed compound; followed by no administration; followed by administration of disclosed compound, and the like). Treatment will continue until the desired outcome is achieved. In general, pharmaceutical formulations will include a compound of the present invention in combination with a pharmaceutically acceptable vehicle, such as saline, buffered saline, 5% dextrose in water, borate-buffered saline containing trace metals or the like. Formulations may further include one or more excipients, preservatives, solubilizers, buffering agents, albumin to prevent protein loss on vial surfaces, lubricants, fillers, stabilizers, etc. Methods of formulation are well known in the art and are disclosed, for example, in Remington's Pharmaceutical

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Sciences, Gennaro, ed., Mack Publishing Co., Easton PA, 1990, which is incorporated herein by reference. Pharmaceutical compositions for use within the present invention can be in the form of sterile, nonpyrogenic liquid solutions or suspensions, coated capsules, suppositories, lyophilized powders, transdermal patches or other forms known in the art. Local administration may be by injection at the site of injury or defect, or by insertion or attachment of a solid carrier at the site, or by direct, topical application of a viscous liquid. For local administration, the delivery vehicle preferably provides a matrix for the growing bone or cartilage, and more preferably is a vehicle that can be absorbed by the subject without adverse effects.

Delivery of compounds herein to wound sites may be enhanced by the use of controlled-release compositions, such as those described in WIPO publication WO 93/20859, which is incorporated herein by reference in its entirety. Films of this type are particularly useful as coatings for prosthetic devices and surgical implants. The films may, for example, be wrapped around the outer surfaces of surgical screws, rods, pins, plates and the like. Implantable devices of this type are routinely used in orthopedic surgery. The films can also be used to coat bone filling materials, such as hydroxyapatite blocks, demineralized bone matrix plugs, collagen matrices and the like. In general, a film or device as described herein is applied to the bone at the fracture site. Application is generally by implantation into the bone or attachment to the surface using standard surgical procedures.

In addition to the copolymers and carriers noted above, the biodegradable films and matrices may include other active or inert components. Of particular interest are those agents that promote tissue growth or infiltration, such as growth factors.

Exemplary growth factors for this purpose include epidermal growth factor (EGF), fibroblast growth factor (FGF), platelet-derived growth factor (PDGF), transforming growth factors (TGFs), parathyroid hormone (PTH), leukemia inhibitory factor (LIF), and insulin-like growth factors (IGFs). Agents that promote bone growth, such as bone morphogenetic proteins (U.S. Patent No. 4,761,471; PCT Publication WO 90/11366), osteogenin (Sampath et al. Proc. Natl. Acad. Sci. USA (1987) 84:7109-13) and NaF (Tencer et al. J. Biomed. Mat. Res. (1989) 23: 571-89) are also preferred.

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Biodegradable films or matrices include calcium sulfate, tricalcium phosphate, hydroxyapatite, polylactic acid, polyanhydrides, bone or dermal collagen, pure proteins, extracellular matrix components and combinations thereof. Such biodegradable materials may be used in combination with nonbiodegradable materials, to provide desired mechanical, cosmetic or tissue or matrix interface properties.

Alternative methods for delivery of compounds of the present invention include use of ALZET osmotic minipumps (Alza Corp., Palo Alto, CA); sustained release matrix materials such as those disclosed in Wang et al. (PCT Publication WO 90/11366); electrically charged dextran beads, as disclosed in Bao et al. (PCT Publication WO 92/03125); collagen-based delivery systems, for example, as disclosed in Ksander et al. Ann. Surg. (1990) 211(3):288-94; methylcellulose gel systems, as disclosed in Beck et al. J. Bone Min. Res. (1991) 6(11):1257-65; and alginate-based systems, as disclosed in Edelman et al. Biomaterials (1991) 12:619-26. Other methods well known in the art for sustained local delivery in bone include porous coated metal protheses that can be impregnated and solid plastic rods with therapeutic compositions incorporated within them

The compounds of the present invention may also be used in conjunction with agents that inhibit bone resorption. Antiresorptive agents, such as estrogen, bisphosphonates and calcitonin, are preferred for this purpose. More specifically, the compounds disclosed herein may be administered for a period of time (for instance, months to years) sufficient to obtain correction of a bone deficit condition. Once the bone deficit condition has been corrected, the vertebrate can be administered an anti-resorptive compound to maintain the corrected bone condition. Alternatively, the compounds disclosed herein may be administered with an anti-resorptive compound in a cyclical manner (administration of disclosed compound, followed by anti-resorptive, followed by disclosed compound, and the like).

In additional formulations, conventional preparations such as those described below may be used.

Aqueous suspensions may contain the active ingredient in admixture with pharmacologically acceptable excipients, comprising suspending agents, such as methyl

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cellulose; and wetting agents, such as lecithin, lysolethicin or long-chain fatty alcohols.

The said aqueous suspensions may also contain preservatives, coloring agents,
flavoring agents and sweetening agents in accordance with industry standards.

Preparations for topical and local application comprise aerosol sprays, lotions, gels and ointments in pharmaceutically appropriate vehicles which may comprise lower aliphatic alcohols, polyglycols such as glycerol, polyethylene glycol, esters of fatty acids, oils and fats, and silicones. The preparations may further comprise antioxidants, such as ascorbic acid or tocopherol, and preservatives, such as p-hydroxybenzoic acid esters.

Parenteral preparations comprise particularly sterile or sterilized products.

Injectable compositions may be provided containing the active compound and any of
the well known injectable carriers. These may contain salts for regulating the osmotic
pressure.

If desired, the osteogenic agents can be incorporated into liposomes by any of the reported methods of preparing liposomes for use in treating various pathogenic conditions. The present compositions may utilize the compounds noted above incorporated in liposomes in order to direct these compounds to macrophages, monocytes, other cells and tissues and organs which take up the liposomal composition. The liposome-incorporated compounds of the invention can be utilized by parenteral administration, to allow for the efficacious use of lower doses of the compounds. Ligands may also be incorporated to further focus the specificity of the liposomes.

Suitable conventional methods of liposome preparation include, but are not limited to, those disclosed by Bangham, A.D. et al. J Mol Biol (1965) 23:238-252, Olson, F. et al. Biochim Biophys Acta (1979) 557:9-23, Szoka, F. et al. Proc Natl Acad Sci USA (1978) 75:4194-4198, Mayhew, E. et al. (1984) 775:169-175, Kim, S. et al. Biochim Biophys Acta (1983) 728:339:348, and Mayer, et al. Biochim Biophys Acta (1986) 858:161-168.

The liposomes may be made from the present compounds in combination with any of the conventional synthetic or natural phospholipid liposome materials including

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phospholipids from natural sources such as egg, plant or animal sources such as phosphatidylcholine, phosphatidylethanolamine, phosphatidylglycerol, sphingomyelin. phosphatidylserine, or phosphatidylinositol. Synthetic phospholipids that may also be used, include, but are not limited to: dimyristoylphosphatidylcholine. dioleoylphosphatidylcholine, dipalmitoylphosphatidylcholine and distearoylphosphatidycholine, and the corresponding synthetic phosphatidylethanolamines and phosphatidylglycerols. Cholesterol or other sterols. cholesterol hemisuccinate, glycolipids, cerebrosides, fatty acids, gangliosides. sphingolipids, 1,2-bis(oleoyloxy)-3-(trimethyl ammonio) propane (DOTAP), N-[1-(2,3-dioleoyl) propyl-N,N,N-trimethylammonium chloride (DOTMA), and other cationic lipids may be incorporated into the liposomes, as is known to those skilled in the art. The relative amounts of phospholipid and additives used in the liposomes may be varied if desired. The preferred ranges are from about 60 to 90 mole percent of the phospholipid; cholesterol, cholesterol hemisuccinate, fatty acids or cationic lipids may be used in amounts ranging from 0 to 50 mole percent. The amounts of the present compounds incorporated into the lipid layer of liposomes can be varied with the

Using conventional methods, approximately 20 to 30% of the compound present in solution can be entrapped in liposomes; thus, approximately 70 to 80% of the active compound is wasted. In contrast, where the compound is incorporated into liposomes, virtually all of the compound is incorporated into the liposome, and essentially none of the active compound is wasted.

concentration of their lipids ranging from about 0.01 to about 50 mole percent.

The liposomes with the above formulations may be made still more specific for their intended targets with the incorporation of monoclonal antibodies or other ligands specific for a target. For example, monoclonal antibodies to the BMP receptor may be incorporated into the liposome by linkage to phosphatidylethanolamine (PE) incorporated into the liposome by the method of Leserman, L. et al. Nature (1980) 288:602-604.

Veterinary uses of the disclosed compounds are also contemplated. Such uses would include limitation or treatment of bone or cartilage deficits or defects in

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domestic animals, livestock and thoroughbred horses. The compounds described herein can also modify a target tissue or organ environment, so as to attract boneforming cells to an environment in need of such cells.

The compounds of the present invention may also be used to stimulate growth of bone-forming cells or their precursors, or to induce differentiation of bone-forming cell precursors, either in vitro or ex vivo. As used herein, the term "precursor cell" refers to a cell that is committed to a differentiation pathway, but that generally does not express markers or function as a mature, fully differentiated cell. As used herein. the term "mesenchymal cells" or "mesenchymal stem cells" refers to pluripotent 10 progenitor cells that are capable of dividing many times, and whose progeny will give rise to skeletal tissues, including cartilage, bone, tendon, ligament, marrow stroma and connective tissue (see A. Caplan J. Orthop. Res. (1991) 9:641-50). As used herein, the term "osteogenic cells" includes osteoblasts and osteoblast precursor cells. More particularly, the disclosed compounds are useful for stimulating a cell population 15 containing marrow mesenchymal cells, thereby increasing the number of osteogenic cells in that cell population. In a preferred method, hematopoietic cells are removed from the cell population, either before or after stimulation with the disclosed compounds. Through practice of such methods, osteogenic cells may be expanded. The expanded osteogenic cells can be infused (or reinfused) into a vertebrate subject in 20 need thereof. For instance, a subject's own mesenchymal stem cells can be exposed to compounds of the present invention ex vivo, and the resultant osteogenic cells could be infused or directed to a desired site within the subject, where further proliferation and/or differentiation of the osteogenic cells can occur without immunorejection. Alternatively, the cell population exposed to the disclosed compounds may be immortalized human fetal osteoblastic or osteogenic cells. If such cells are infused or implanted in a vertebrate subject, it may be advantageous to "immunoprotect" these nonself cells, or to immunosuppress (preferably locally) the recipient to enhance transplantation and bone or cartilage repair.

Within the present invention, an "effective amount" of a composition is that amount which produces a statistically significant effect. For example, an "effective

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amount" for therapeutic uses is the amount of the composition comprising an active compound herein required to provide a clinically significant increase in healing rates in fracture repair; reversal of bone loss in osteoporosis; reversal of cartilage defects or disorders; prevention or delay of onset of osteoporosis; stimulation and/or augmentation of bone formation in fracture nonunions and distraction osteogenesis; increase and/or acceleration of bone growth into prosthetic devices; and repair of dental defects. Such effective amounts will be determined using routine optimization techniques and are dependent on the particular condition to be treated, the condition of the patient, the route of administration, the formulation, and the judgment of the practitioner and other factors evident to those skilled in the art. The dosage required for the compounds of the invention (for example, in osteoporosis where an increase in bone formation is desired) is manifested as a statistically significant difference in bone mass between treatment and control groups. This difference in bone mass may be seen, for example, as a 5-20% or more increase in bone mass in the treatment group. Other measurements of clinically significant increases in healing may include, for example, tests for breaking strength and tension, breaking strength and torsion, 4-point bending, increased connectivity in bone biopsies and other biomechanical tests well known to those skilled in the art. General guidance for treatment regimens is obtained from experiments carried out in animal models of the disease of interest.

The dosage of the compounds of the invention will vary according to the extent and severity of the need for treatment, the activity of the administered compound, the general health of the subject, and other considerations well known to the skilled artisan. Generally, they can be administered to a typical human on a daily basis on an oral dose of about 0.1 mg/kg-1000 mg/kg, and more preferably from about 1 mg/kg to about 200 mg/kg. The parenteral dose will appropriately be 20-100% of the oral dose.

Screening Assays

The osteogenic activity of the compounds used in the methods of the invention can be verified using *in vitro* screening techniques, such as the assessment of

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transcription of a reporter gene coupled to a bone morphogenetic protein-associated promoter, as described above, or in alternative assays such as the following:

Technique for Neonatal Mouse Calvarial Assay (In vitro)

This assay is similar to that described by Gowen M. & Mundy G. *J Immunol* (1986) 136:2478-82. Briefly, four days after birth, the front and parietal bones of ICR Swiss white mouse pups are removed by microdissection and split along the sagittal suture. The bones are incubated in BGJb medium (Irvine Scientific, Santa Ana, CA) plus 0.02% (or lower concentration) β-methylcyclodextrin, wherein the medium also contains test or control substances, at 37°C in a humidified atmosphere of 5% CO₂ and 95% air for 96 hours

Following this, the bones are removed from the incubation media and fixed in 10% buffered formalin for 24-48 hours, decalcified in 14% EDTA for 1 week, processed through graded alcohols; and embedded in paraffin wax. Three µm sections of the calvaria are prepared. Representative sections are selected for histomorphometric assessment of bone formation and bone resorption. Bone changes are measured on sections cut 200 µm apart. Osteoblasts and osteoclasts are identified by their distinctive morphology.

Other auxillary assays can be used as controls to determine nonBMP promotermediated effects of test compounds. For example, mitogenic activity can be measured
using screening assays featuring a serum-response element (SRE) as a promoter and a
luciferase reporter gene. More specifically, these screening assays can detect signalling
through SRE-mediated pathways, such as the protein kinase C pathway. For instance,
an osteoblast activator SRE-luciferase screen and an insulin mimetic SRE-luciferase
screen are useful for this purpose. Similarly, test compound stimulation of cAMP
response element (CRE)-mediated pathways can also be assayed. For instance, cells
transfected with receptors for PTH and calcitonin (two bone-active agents) can be
used in CRE-luciferase screens to detect elevated cAMP levels. Thus, the BMP
promoter specificity of a test compound can be examined through use of these types of
auxillary assays.

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In vivo Assay of Effects of Compounds on Murine Calvarial Bone Growth

Male ICR Swiss white mice, aged 4-6 weeks and weighing 13-26 gm. are employed, using 4-5 mice per group. The calvarial bone growth assay is performed as described in PCT application WO 95/24211. Briefly, the test compound or appropriate control vehicle is injected into the subcutaneous tissue over the right calvaria of normal mice. Typically, the control vehicle is the vehicle in which the compound was solubilized, and is PBS containing 5% DMSO or is PBS containing Tween (2 µl/10 ml). The animals are sacrificed on day 14 and bone growth measured 10 by histomorphometry. Bone samples for quantitation are cleaned from adjacent tissues and fixed in 10% buffered formalin for 24-48 hours, decalcified in 14% EDTA for 1-3 weeks, processed through graded alcohols; and embedded in paraffin wax. Three to five µm sections of the calvaria are prepared, and representative sections are selected for histomorphometric assessment of the effects on bone formation and bone resorption. Sections are measured by using a camera lucida attachment to trace directly the microscopic image onto a digitizing plate. Bone changes are measured on sections cut 200 µm apart, over 4 adjacent 1x1 mm fields on both the injected and noninjected sides of the calvaria. New bone is identified by its characteristic woven structure, and osteoclasts and osteoblasts are identified by their distinctive morphology. Histomorphometry software (OsteoMeasure, Osteometrix, Inc., Atlanta) is used to process digitizer input to determine cell counts and measure areas or perimeters.

Additional In Vivo Assays

Lead compounds can be further tested in intact animals using an in vivo, dosing assay. Prototypical dosing may be accomplished by subcutaneous, intraperitoneal or oral administration, and may be performed by injection, sustained release or other delivery techniques. The time period for administration of test compound may vary (for instance, 28 days as well as 35 days may be appropriate). An exemplary, in vivo subcutaneous dosing assay may be conducted as follows:

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In a typical study, 70 three-month-old female Sprague-Dawley rats are weightmatched and divided into seven groups, with ten animals in each group. This includes a baseline control group of animals sacrificed at the initiation of the study, a control group administered vehicle only; a PBS-treated control group; and a positive control group administered a compound (nonprotein or protein) known to promote bone growth. Three dosage levels of the compound to be tested are administered to the remaining three groups.

Briefly, test compound, positive control compound, PBS, or vehicle alone is administered subcutaneously once per day for 35 days. All animals are injected with calcein nine days and two days before sacrifice (two injections of calcein administered each designated day). Weekly body weights are determined. At the end of the 35-day cycle, the animals are weighed and bled by orbital or cardiac puncture. Serum calcium, phosphate, osteocalcin, and CBCs are determined. Both leg bones (femur and tibia) and lumbar vertebrae are removed, cleaned of adhering soft tissue, and stored in 70% ethanol for evaluation, as performed by peripheral quantitative computed tomography (pqCT; Ferretti, J. Bone (1995) 17:353S-64S), dual energy X-ray absorptiometry (DEXA; Laval-Jeantet A. et al. Calcif Tissue Intl (1995) 56:14-18; J. Casez et al. Bone and Mineral (1994) 26:61-68) and/or histomorphometry. The effect of test compounds on bone remodeling can thus be evaluated.

Lead compounds also be tested in acute ovariectomized animals (prevention model) using an *in vivo* dosing assay. Such assays may also include an estrogentreated group as a control. An exemplary subcutaneous dosing assay is performed as follows:

In a typical study, 80 three-month-old female Sprague-Dawley rats are weightmatched and divided into eight groups, with ten animals in each group. This includes a baseline control group of animals sacrificed at the initiation of the study; three control groups (sham ovariectomized (sham OVX) + vehicle only; ovariectomized (OVX) + vehicle only; PBS-treated OVX); and a control OVX group that is administered a compound known to promote bone growth. Three dosage levels of the compound to be tested are administered to the remaining three groups of OVX animals.

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Since ovariectomy (OVX) induces hyperphagia, all OVX animals are pair-fed with sham OVX animals throughout the 35 day study. Briefly, test compound, positive control compound, PBS, or vehicle alone is administered subcutaneously once per day for 35 days. Alternatively, test compound can be formulated in implantable pellets that are implanted for 35 days, or may be administered orally, such as by gastric gavage. All animals, including sham OVX/vehicle and OVX/vehicle groups, are injected intraperitoneally with calcein nine days and two days before sacrifice (two injections of calcein administered each designated day, to ensure proper labeling of newly formed bone). Weekly body weights are determined. At the end of the 35-day cycle, the animals' blood and tissues are processed as described above.

Lead compounds may also be tested in chronic OVX animals (treatment model). An exemplary protocol for treatment of established bone loss in ovariectomized animals that can be used to assess efficacy of anabolic agents may be performed as follows. Briefly, 80 to 100 six month old female, Sprague-Dawley rats 15 are subjected to sham surgery (sham OVX) or ovariectomy (OVX) at time 0, and 10 rats are sacrificed to serve as baseline controls. Body weights are recorded weekly during the experiment. After approximately 6 weeks of bone depletion (42 days), 10 sham OVX and 10 OVX rats are randomly selected for sacrifice as depletion period controls. Of the remaining animals, 10 sham OVX and 10 OVX rats are used as placebo-treated controls. The remaining OVX animals are treated with 3 to 5 doses of 20 test drug for a period of 5 weeks (35 days). As a postitive control, a group of OVX rats can be treated with an agent such as PTH, a known anabolic agent in this model (Kimmel et al. Endocrinology (1993) 132:1577-84). To determine effects on bone formation, the following procedure can be followed. The femurs, tibiae and lumbar 25 vertebrae 1 to 4 are excised and collected. The proximal left and right tibiae are used for pqCT measurements, cancellous bone mineral density (BMD) (gravimetric determination), and histology, while the midshaft of each tibiae is subjected to cortical BMD or histology. The femurs are prepared for pqCT scanning of the midshaft prior to biomechanical testing. With respect to lumbar vertebrae (LV), LV2 are processed

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for BMD (pqCT may also be performed); LV3 are prepared for undecalcified bone histology; and LV4 are processed for mechanical testing.

Nature of the Compounds Useful in the Invention

All of the compounds of the invention contain two aromatic systems, Ar^1 and Ar^2 , spaced apart by a linker at a distance of 1.5-15Å, and may preferably contain at least one nitrogen atom. A summary of the structural features of the compounds included within the invention is shown in Figure 1.

As shown, Ar¹ and Ar² may include various preferred embodiments. These are selected from the group consisting of a substituted or unsubstituted aromatic ring system containing a 5-membered heterocycle; a substituted or unsubstituted aromatic ring system containing a six-membered heterocycle; a substituted or unsubstituted naphthalene moiety; and a substituted or unsubstituted benzene moiety. There are 16 possible combinations of these embodiments, if Ar¹ and Ar² are considered distinguishable. As will be clear, however, the designation of one aromatic system as Ar¹ and the other as Ar² is arbitrary; thus there are only ten possible combinations. However, for simplicity, Ar¹ and Ar² are designated separately with the realization that the choice is arbitrarily made. All linkers described herein if not palindromic, are considered to link Ar¹ to Ar² or vice-versa whether or not the complementary orientation is explicitly shown (as it is in some cases). Thus, if Ar¹ and Ar² are different and a linker is specified as -CONR-, it is understood that also included is the linker -NRCO- when the designations Ar¹ and Ar² are retained

The noninterfering substituents on the aromatic system represented by Ar¹ and the noninterfering substituents on the aromatic system represented by Ar² are represented in the formulas herein by R* and R*, respectively. Generally, these substituents can be of wide variety. Among substituents that do not interfere with (and in some instances may be desirable for) the beneficial effect of the compounds of the invention on bone in treated subjects are included alkyl (1-6C, preferably lower alkyl 1-4C), including straight or branched-chain forms thereof, alkenyl (1-6C, preferably 1-4C), all of which can be straight or branched chains

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or are aryl (6-10C) or alkylaryl (6-15C) or aryl alkyl (6-15C) and may contain further substituents. R* and R* may also include halogens, (e.g. F, Cl, Br and I); siloxy, OR, SR, NR2, OOCR, COOR, NCOR, NCOOR, and benzoyl, CF3, OCF3, SCF3, N(CF3)2. NO, NO2, CN, SO, SO2R, SO3R and the like, wherein R is alkyl (1-6C) or is H. Similarly, these substituents may contain R* as a substitute for R wherein R* is aryl (6-10C) or alkylaryl (6-15C) or aryl alkyl (6-15C). Where R* or R* substituents are in adjacent positions in the aromatic system, they may combine to form a ring. Further, rings may be included in substituents which contain sufficient carbon and heteroatoms to provide this possibility.

The choice of noninterfering substituents depends on the overall nature of the system. For example, in compounds of the invention wherein two pyridine rings are linked through a saturated flexible linker, a CF₃ substituent para to the linker in each of the pyridine rings is particularly preferred. In those systems wherein a quinoline is coupled through a flexible conjugated or nonconjugated linker to a phenyl substituent or to a naphthyl substituent, an amino group para to the linker in the phenyl or naphthyl moiety is preferred. Particularly preferred amino groups are dimethylamino and diethylamino. In systems wherein a benzothiazole is coupled to phenyl through a flexible linker, preferred substituents on the phenyl moiety include alkoxy or alkylthio in combination with halo, in particular, chloro. Also preferred is the presence of a diethylamino group in the phenyl moiety para to the position that is coupled to the linker. In general, the presence of a substituent in the phenyl moiety para to the position of joinder to the linker is preferred.

Generally, preferred noninterfering substituents include hydrocarbyl groups of 1-6C, including saturated and unsaturated, linear or branched hydrocarbyl as well as hydrocarbyl groups containing ring systems; halo groups, alkoxy, hydroxy, amino, monoalkyl- and dialkylamino where the alkyl groups are 1-6C, CN, CF₃, OCF₃ and COOR, and the like.

Although the number of R^a and R^b may typically be 0-4 (m) or 0-5 (n) depending on the available positions in the aromatic system, preferred embodiments

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include those wherein the number of R^{\bullet} is 0, 1 or 2 and of R^{b} is 0, 1, 2 or 3, particularly 1 or 2.

The linker group, L, may be a covalent bond or any group having a valence of at least two and covering a linear distance of from about 1.5 to about 15 Angstroms, including those that contain cyclic moieties, that meet this spatial requirement. Useful linkers are divided, by definition herein, into three general categories: (1) flexible nonconjugating linkers, (2) flexible conjugating linkers, and (3) constrained linkers. The preferred choice of linker will depend on the choices for Ar¹ and Ar².

As defined herein, flexible nonconjugating linkers are those that link only one position of Ar1 to one position of Ar2, and provide only a single covalent bond or a single chain between Ar1 and Ar2. The chain may contain branches, but may not contain π -bonds (except in the branches) or cyclic portions in the chain. The linker atoms in the chain itself rotate freely around single covalent bonds, and thus the linker has more than two degrees of freedom. Particularly useful flexible nonconjugating linkers, besides a covalent bond, are those of the formulas: -NR-, -CR2-, -S-, or -O-, wherein R is H or alkyl (1-6C), more preferably H or lower alkyl (1-4C) and more preferably H. Also contemplated are those of the formulas: -NRCO-, -CONR-, -CR2S-, -SCR2-, -OCR2-, -CR2O-, -NRNR-, -CR2CR2-, -NRSO2-, -SO2NR-, -CR2CO-, -COCR2-, and -NR-NR-CO-CR2- and its complement -CR2-CO-NR-NR-, or -NRCR2CR2NR- or the thiolated counterparts, and particularly -NHCR2CR2NH-, including the isosteres thereof, such as -NRNRCSNR- and -NRNRCONR-. Also contemplated are those of the formulas: -NH(CH2)2NH-, -O(CR2)2O-, and -S(CR₂)₂S-, including the isosteres thereof. The optimum choice among flexible nonconjugating linkers is dependent on the nature of Ar1 and Ar2

Flexible conjugating linkers are those that link only one position of Ar^1 to one position of Ar^2 , but incorporate at least one double or triple bond or one or more cyclic systems in the chain itself and thus have only two degrees of freedom. A flexible conjugating linker may form a completely conjugated π -bond linking system between Ar^1 and Ar^2 , thus providing for co-planarity of Ar^1 and Ar^2 . Examples of useful flexible conjugating linkers include: $-RC = CR - \cdot -N = N - \cdot -CEC - \cdot -RC = N - \cdot -N = CR - \cdot -N = N - \cdot -CEC - \cdot -N = N - \cdot -N = CR - \cdot -N = N - \cdot -N =$

-NR-N=CR-; -NR-NR-CO-CR=CR-, -N=NCOCR₂-, -N=NCSCR₂-, -N=NCOCR₂-CR₂, -N=NCONR-, -N=NCSNR-, and the like, where R is H or alkyl (1-6C), preferably H or lower alkyl (1-4C); and more preferably H.

Constrained linkers are those that have more than one point of attachment to either or both Ar^1 and Ar^2 and, thus, generally allow for only one degree of freedom. Constrained linkers most frequently form fused 5- or 6-membered cyclic moieties with Ar^1 and/or Ar^2 where either Ar^1 or Ar^2 has at least one substituent appropriately positioned to form a second covalent bond with the linker, e.g., where Ar^2 is a phenyl group with a reactive, ortho-positioned substituent, or is derivatized to the linker directly at the ortho position. (Although the aromatic moieties should properly be referred to as phenylene or naphthylene in such cases, generally the term "phenyl" or "naphthyl" is used herein to include both monovalent and bivalent forms of these moieties.) Examples of particularly useful constrained linkers include

15 and the like, where X is O, N, S or CR, and Y is CR2 or C=O.

In one class of preferred embodiments, Ar¹ is an aromatic system containing a 5-membered heterocycle, of the formula:

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$$\begin{array}{cccc}
R_{m}^{a} & & & & \\
& & & \\
& & & \\
& & & \\
& & & \\
R_{m}^{a} & & & \\
\end{array}$$

$$\begin{array}{cccc}
NR \\
& & \\
\end{array}$$

$$\begin{array}{ccccc}
(1a)$$

wherein Z is S, O, NR or $-CR_2$ in formula (1a) or CR in formula (2a), where each R is independently H or alkyl (1-6C), the dotted line represents an optional π -bond, each R^* is independently a noninterfering substituent as defined above, and m is an integer of 0-4.

In general, Ar² is phenyl, naphthyl, or an aromatic system containing a 5- or 6membered heterocyclic ring. All may be unsubstituted or substituted with noninterfering substituents. R^b.

When Ar² is an aromatic system containing a six-membered heterocycle, the formula of said system is preferably:

$$R_{p}^{p}$$
 $Z = Z$ (iv)

wherein each Z is independently a heteroatom selected from the group consisting of S, O and N; or is CR or CR_2 , the dotted lines represent optional π -bonds, each R^b is independently a noninterfering substituent, and m is an integer of 0-4, with the proviso that at least one Z must be a heteroatom.

Ar2 in these compounds may also have the formula

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where R^b is a noninterfering substituent as defined above and n is an integer from 0 to 5.

Similarly, when Ar² is naphthyl, it may contain 0-5 R^b substitutions. When Ar² is an aromatic system containing a 5-membered heterocycle, preferred forms are those as described for Ar¹.

Thus, in one set of preferred compounds. Ar1 is

$$\begin{array}{cccc}
R_{m}^{a} & & & & \\
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wherein each R^4 is a noninterfering substituent, m is an integer of 0-4, the dotted line represents an optional π bond, and Z is 0, S, NR or CR₂ in formula (1) or is CR in formula (2) wherein each R is independently H or alkyl (1-6C).

In one group of these compounds, L is a flexible conjugating or nonconjugating linker. In this group, when Z is NR, Ar² is preferably a substituted or unsubstituted aromatic system containing a 5-membered heterocycle or is

wherein R^b is a noninterfering substituent and n is an integer of 0-5; and/or L is -N=N-, -N=CR-, -RC=CR-, -NRNR-, -CR₂NR-, -CR₂CR₂-, -NRCO- or -CONR-where R is H or alkyl (1-6C); and/or the dotted line represents a π bond.

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In these embodiments as well as in alternative embodiments of Ar², it is preferred that each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C), or R^b comprises an aromatic system.

Preferred compounds in this group are 59-0100, 59-103, 59-104, 59-105 and 59-106 (See Figure 13).

In another group of these compounds with flexible linkers, Z is S, and Ar² is preferably a substituted or unsubstituted aromatic system containing a 6-membered heterocycle or is of the formula

wherein R^b is a noninterfering substituent and n is an integer of 0-5; and/or L is -N=N-, -N=CR-, -RC=CR-, -NRNR-, -CR₂NR-, -CR₂CR₂-, -NRCO- or -CONR-where R is H or alkyl (1-6C); and/or the dotted line represents a π bond.

In such compounds, regardless of the choice of Ar², preferred are those compounds wherein each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.

Both when Z is S and when Z is NR, it is preferred that m is 0 and/or each R^b is independently OR, SR or halo, where n=2 and at least one R^b is independently OR or SR and/or L is -NHCO- or -CR=CR-.

Preferred compounds in this group include compounds 59-002, 59-0070, 59-0072, 59-0079, 59-0079, 59-0102, the benzothiazole counterpart of 59-0104, 59-0144, 59-0147, 59-0149, 59-0186, 59-0187, 59-0192, 59-0193, 59-0195, 59-0197, 59-0202, 59-0204, 59-0205, 59-0206, 59-0207, 59-0208, and 59-0210, especially the benzothiazole counterpart of 59-0104 or compounds 59-0147, 59-0205 or 59-0210. (See Figure 13)

Z can also be CR, CR2 or O; here it is also preferred that Ar2 is

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wherein R^b is a noninterfering substituent and n is an integer of 0-5, and/or L is -N=N-, -N=CR-, -RC=CR-, -NRNR-, -CR₂NR-, -CR₂CR₂-, -NRCO- or -CONR-where R is H or alkyl (1-6C), and/or the dotted line represents a π bond.

In these compounds, too, it is preferred that each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system. A preferred compound is 896-5005. (See Figure 4)

The compounds wherein Ar¹ is 1a or 2a as above may also contain a constrained linker.

In these compounds, preferred Z is S or NR; and/or those wherein L is selected from the group consisting of

Ar2 is

wherein Rb is a noninterfering substituent and m is 0-4.

Preferably, each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system. A preferred compound is 59-0124. (See Figure 13)

In another group of preferred embodiments, Ar1 is of the formula

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$$R^a$$
 (3a)

wherein each R^* is independently a noninterfering substituent or is H and Z is NR, S or O, wherein R is alkyl (1-6C) or H, especially where Z is S and/or wherein Ar^2 is

wherein R^b is a noninterfering substituent and n is an integer of 0-5,; and/or L is $-N=N^-$, $-N=CR^-$, $-RC=CR^-$, $-NRNR^-$, $-CR_2NR^-$, $-CR_2CR_2^-$, $-NRCO^-$ or $-CONR^-$ where R is H or alkyl (1-6C), and/or the dotted line represents a π bond. Especially preferred are those compounds where each R^b is independently halo, OR, SR, NR_2 , NO, NO_2 , OCF_3 or CF_3 wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.

In another group of compounds, Ar1 is

$$R^a_m$$
 (4a)

wherein R^4 is a noninterfering substituent, m is an integer of 0-4, each dotted line represents an optional π -bond, each Z is independently N, NR, CR or CR₂, where each R is independently H or alkyl (1-6C) with the proviso that at least one Z is N or NR.

Particularly preferred members of this group are those wherein Ar1 is

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especially those wherein Ar2 is

$$R^b_n$$
 R^b_m R^b_m (vi) or R^b_m (via

wherein each R* is independently a noninterfering substituent, and n is 0-5 and m is 0-4, and/or L is -N=N-, -RC=CR-, -RC=N-, -NRCO-, -NRCR2-, -NRCR2-CR2-, -NRCR2-CR2-, -NRCR2-CR2-NR-, -NRCR2-CR2-NR- or -NRCO-CR2-NR-.

In general, preferably each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.

In an especially preferred group, m is 0, each R⁸ is NR₂ or OR and n is 1 or 2,

10 and/or L is -CR=CR-, -N=N- or -NRCO-, especially the compounds of formulas

59-0030, 59-0078, 59-0091, 59-0093, 59-0150, 50-0197, 59-0198, 59-0199 or

59-0480. (See Figure 13)

Also preferred are those wherein Ar¹ has formula (4a) or (5a) and wherein Ar₂ is substituted or unsubstituted quinolyl or naphthyl of the formula

wherein each Rb is a noninterfering substituent and m is 0-4.

Preferred among these are those wherein L is -N=N-, -RC=CR-, -RC=N-, -NRCO-, -NRCR₂-, -NRCR₂CR₂-, -NRCR₂CO-, -NRNR-, -CR₂CR₂-, -NRCR₂CR₂-, -NRCR₂CR₂-, -NRCR₂CR₂NR-, -NRCR=CRNR- or -NRCOCR₂NR-, and/or wherein each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system and m is 0, 1 or 2.

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The compounds 59-0089, 59-0090, 59-0092 or 59-0094 are particularly preferred.

Ar1 is also preferably

wherein each R¹ is a noninterfering substituent and m is 0-4, in particular where L is -N=N-, -RC=CR-, -RC=N-, -NRCO-, -NRCR₂-, -NRCR₂CR₂-, -NRCR₂CO-, -NRNR-, -CR₂CR₂-, -NRCR₂CR₂NR-, -NRCR=CRNR- or -NRCOCR₂NR-, and/or Ar² is

wherein R^b is a noninterfering substituent and n is an integer of 0-5. Especially preferred are compounds wherein each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system, in particular compounds 59-203, 59-285 or 59-286. (See Figure 13)

When Ar¹ is of formula (4a), L can also be a constrained linker. In still another preferred set, Ar¹ is

$$\begin{array}{cccc}
R^{a}_{m} & z = z \\
z & z & z \\
z - z & z
\end{array}$$
(9a)

wherein each R* is independently a noninterfering substituent, m is an integer of 0-4, each Z is independently N or CR, where R is H or alkyl (1-6C), with the proviso that at least one Z must be N and at least one Z must be CR.

In these compounds, L is preferably a flexible conjugating or nonconjugating linker, and/or wherein Ar² is

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$$R^b_n$$
 (v) or R^b_m $Z=Z$ (vi)

wherein each R^b is independently a noninterfering substituent, and in (vi) each Z is independently N or CR, where R is H or alkyl (1-6C), with the proviso that at least one Z must be a N and at least one Z must be CR.

Preferred such compounds have the formula

$$R_{m}^{a}$$
 or R_{m}^{a} L R_{m}^{b} or R_{m}^{a}

Preferred L embodiments in this group include -N=N-, -RC=CR-, -RC=N-, -NRCO-, -NRCR2-, -NRCR2-CR2-, -NRCR2-CO-, -NRNR-, -CR2-CR2-, -NRCR2-CR2-NR-, -NRCR2-CR2-NR- or -NRCOCR2-NR-; preferred for R* and R* are halo, OR, SR, NR2, NO, NO2, OCF3 or CF3 wherein R is H or alkyl (1-6C) or R* or R* comprise aromatic systems and each m and n is independently 0, 1 or 2.

In particular, compounds are preferred where L is -NHCR₂CR₃NH- and R* is CF₃ para to L, especially compounds 59-0145, 59-0450, 59-0459 or 59-0483. (See Figure 13)

Finally, in another preferred group, Arl is

wherein each R^a is a noninterfering substituent, and n is an integer of 0 and 5, and wherein L is a flexible linker that contains at least one nitrogen. In the alternative or in addition. Ar² is of the formula

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and L is -N=N-, -RC=CR-, -RC=N-, -NRCO-, -NRCR₂-, -NRCR₂CR₂-,
-NRCR₂CO-, -NRNRCR₂CR₂-, -NRNRCSCR=CR-, -NRNRCOCR₂-,
-NRNRCOCR=CR-, -NRNRCSCR₂-, -NRNRCSCR=CR-, -NRNRCONR-,
-NRNRCSNR-, -NRNR-, -CR₂CR₂-, -NRCR₂CR₂NR-, -NRCR=CRNR- or
-NRCOCR₂NR-, -It is preferred that each R^b is independently halo, OR, SR, NR₂, NO,
NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.

Especially preferred are those compounds wherein L is -CR=CRCONRNR-,
-CR=CRCSNRNR-, -CR₂CONRNR- -CR₂CSNRNR-, -NRNRCONR- or
-NRNRCSNR- and/or R^b is -NR₂ and n=1 wherein R^b is in the para position, especially wherein R^c is -COOR and m is 1; most especially compounds 59-0045, 59-0095,
59-0096, 59-0097 and 59-0098. (See Figure 13)

As set forth above, several families of preferred embodiments are defined by specifying Ar^1 and Ar^2 , and L. In one such family, wherein Ar^1 is an aromatic system containing a 5-membered heterocyclic ring, the compound 59-0072, wherein Ar^1 is unsubstituted benzothiazole, the linker $(Ar^1 \rightarrow Ar^2)$ is NHCO, and Ar^2 is 2-methoxy-4-methylthiophenyl was used as a lead compound and variations of the structure studied. Figure 5 shows representative compounds synthesized to analyze the effects of the nature of the linker, various alternatives of Ar^1 wherein Z is O, NR or S, and the effect of substitution on the phenyl moiety, as well as the heterocycle.

Figure 5 gives the structures of these compounds, along with their maximum activity as compared to 59-0008 at 10 µM (the maximum for 59-0008) in the *in vitro* bone growth stimulation assay as well as the concentration at which 50% of maximum stimulation of the BMP promoter was obtained (EC₃₀). See Example 1 for the details of this assay. The results of this study indicate that the amide linker in 59-0072 can readily be substituted by -CH=CH- and that the substitution on the phenyl ring had advantageous effects in the order: 2-Cl-4-OMe=2,4-di-OMe=2-OMe-4-SMe >>3,4-di-OMe=4-OMe. In general, compounds 59-0205, 59-0104, 59-0107, 59-0210 and 59-0124 have the best activity in the primary screen, but only 59-0124 is active in the *ex vivo* calvarial assay described in Example 3.

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Similar structure/activity relationship studies were conducted for compounds wherein Ar¹ is quinoline. In this study, compound 50-0197, wherein Ar¹ is unsubstituted quinoline, the linker is -CH=CH-, and Ar² is p-dimethylaminophenyl was used as a lead compound. The compounds synthesized in this study are shown in Figure 6, along with their maximum stimulation characteristics and EC₃₀ in the assay of Example 1. The results of these studies showed that quinoxaline analogs are the most active in the assay, followed by quinoline; the linker can most preferably be -CH=CH- or -N=N- as judged by activity in the assay, but -CH=CH-lis preferred *in vivo* due to its lack of toxicity. Preferred substituents on the phenyl ring in Ar² include 2,4-di-OMe; 4-NMe₂-2-OMe, and 4-NMe₂. For the compounds in Figure 6, 59-0282 and 50-0197 were moderately active and 59-0203 was highly active in the *ex vivo* calvarial assay described hereinabove as a modification of Gowen, M. and Mundy, G. J. Immunol (1986) 136:2478-2482.

Another group of compounds wherein AI^1 and AI^2 are pyridyl heterocycles was also studied. In this case, compound 59-0145 was used as the lead compound; the linker, the nature of the substituents R^1 and R^2 were varied. In one instance, a quinolyl residue was substituted for a pyrimidine residue as AI^2 . Representative compounds used in this study are shown in Figure 7. along with the data from the screening assay.

Using 59-0145 as a lead, a CF_3 group in one of AI^1 and AI^2 appeared essential; however, one of R^3 or R^5 could also be NO_2 or CN. The most preferred linker is -NHCH₂CH₂NH-; substitution on the amino groups in L by an alkyl group appeared to reduce activity. Enhanced chain lengths also led to loss of activity.

Preferred compounds in this group, which perform better than 59-0008 in the screening assay, included 59-0450, 59-0459, 59-0480, and 59-0483.

Finally, a series in which Ar¹ is 3-carboxyphenyl was studied using 59-0045 as the lead compound. In 59-0045, L is -NHN=CH- and Ar² is p-dimethylaminophenyl. Figure 8 shows the compounds synthesized in this series. Under the circumstances of this assay, analogs wherein R^b was, instead of a nitrogen-containing moiety, F, Cl, or OMe were inactive. Preferred compounds in this series are 59-0096 and 59-0098. 59-0098 is very active in the ex vivo calvarial assay described above.

Synthesis of the Compounds Useful in the Invention

Many of the compounds useful in the invention are commercially available and can be synthesized by art-known methods. Those compounds useful in the invention which are new compounds, can similarly be obtained by methods generally known in the art, as described in the Examples below.

The following examples are intended to illustrate, but not to limit, the invention.

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Preparation A

Compound 59-0008 used as a standard in the assays, was synthesized according to the procedure of McDonald, W. S., et al. Chem Comm (1969) 392-393; Irving, H. N. N. H. et al. Anal Chim Acta (1970) 49:261-266. Briefly, 10.0 g of dithizone was taken up in 100 ml EtOH and 50 ml AcOH and heated at reflux for 18 h. After cooling, this was diluted first with 100 ml water and then with 50 ml 1N NaOH. This was then further neutralized by the addition of 6 N NaOH to bring the pH to 5.0. This deep purple mixture was then concentrated on a rotavapor to remove organics. Once the liquid had lost all of its purple color, this was filtered to collect the dark precipitate. Purification by flash chromatography (4.5 x 25.7 cm; EtAc/Hep. (1.4); Rf 0.22) followed by recrystalization from EtOH gave 2.15 g (25% yield) of dark purple crystals, mp=184-185 °C. ¹H NMR (CDCl3) 7.90 (d of d, J₁=7.7, J₂=2.2, 2H), 7.64 (hump, 1H), 7.49 (m, 3H), 7.02 (m, 1H), 6.91 (m, 2H), 6.55 (d, J=8.1, 1H). MS (EI) 254 (47, M+), 105 (26), 77 [100], 51 (27). HRMS (EI, M+) 254.0626 (calcd 254.0626182). Anal. Calcd for C13H10N4S: C, 61.40; H, 3.96; N, 22.03. Found: C, 61.40; H, 4.20; N, 22.06.

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Example 1

High Throughput Screening

Several tens of thousands of compounds were tested in the assay system set forth in WO 96/38590, published 5 December 1996, and incorporated herein by reference. The standard positive control was 59-0008 (also denoted "OS8"), which is of the formula:

In more detail, the 2T3-BMP-2-LUC cells, a stably transformed osteoblast cell line described in Ghosh-Choudhury et al. Endocrinology (1996) 137:331-39,

10 referenced above, was employed. The cells were cultured using α-MEM, 10% FCS with 1% penicillin/streptomycin and 1% glutamine ("plating medium"), and were split 1:5 once per week. For the assay, the cells were resuspended in a plating medium containing 4% FCS, plated in microtiter plates at a concentration of 5 x 10³ cells (in 50 μl)/well, and incubated for 24 hours at 37°C in 5% CO₂. To initiate the assay, 50 μl of the test compound or the control in DMSO was added at 2X concentration to each well, so that the final volume was 100 μl. The final serum concentration was 2% FCS, and the final DMSO concentration was 1%. Compound 59-0008 (10 μM) was used as a positive control.

The treated cells were incubated for 24 hours at 37°C and 5% CO₂. The medium was then removed, and the cells were rinsed three times with PBS. After removal of excess PBS, 25 µl of 1X cell culture lysing reagent (Promega #E153A) was added to each well and incubated for at least ten minutes. Optionally, the plates/samples could be frozen at this point. To each well was added 50 µl of luciferase substrate (Promega #E152A; 10 ml Promega luciferase assay buffer per 7 mg Promega luciferase assay substrate). Luminescence was measured on an

automated 96-well luminometer, and was expressed as either picograms of luciferase activity per well or as picograms of luciferase activity per microgram of protein.

In this assay, compound 59-0008 (3-phenylazo-1H-4,1,2-benzothiadiazine) exhibited a pattern of reactivity, as shown in Figure 2. The activity for compound 59-0008 was maximal at a concentration of approximately 3-10 μ M and, more particularly, at about 3 μ M, and thus provided a response of approximately 175 light emission units. Accordingly, other tested compounds were evaluated at various concentrations, and these results were compared to the results obtained for 59-0008 at 10 μ M (which value was normalized to 100). For instance, any tested compound in Figure 3 and Figure 4 that showed greater activity than 10 μ M of 59-0008 would result in a value over 100.

As shown in Figure 3 (46 sheets) and Figure 4 (28 sheets), several compounds were found to be particularly effective.

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Example 2

In vivo Calvarial Bone Growth Data

Compound 59-0008 was assayed in vivo according to the procedure described previously (see "In vivo Assay of Effects of Compounds on Murine Calvarial Bone Growth", supra). As compared to a vehicle control, compound 59-0008 induced a 4-fold increase in width of new calvarial bone.

In another experiment, 5 week old Swiss white mice were injected 3 times a day for 5 days over the calvaria with compound 59-0203 using PBS, 5% DMSO and 0.1% BSA as carrier. The drug was tested at 6 different doses, from 0.1-50 mg/kg/day. Animals were sacrificed 3 weeks after the injections started and calvariae were fixed, decalcified, and processed for histology. Bone histomorphometry measuring total bone area (BA/TV) confirms that FGF, used in every experiment as a positive control, shows an increase in the total bone area with all doses tested, but this increase is only significantly different from control at 1 and 5 mg/kg/day. The invention compound 59-0203 shows consistent increases over the 0.1-50 mg/kg/day range at a somewhat lower level than that obtained with FGF.

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Similar results are obtained when new bone width in microns is measured.

There was no new bone present in the control group. 59-0203 caused new bone formation at all doses, with a significant increase at 25-50 mg/kg/day. New bone as percentage of the total bone area was about 45% for the FGF positive control and from about 15% to 30% over the range of 0.1-50 mg/kg/day for 59-0203. There was no new bone present in the negative control.

Example 3

Ex vivo Calvarial Bone Growth Assav

A number of compounds, in particular, those studied in connection with lead compounds classified as hydrazone/hydrazides (H) exemplified by 59-0045, benzothiazoles (T) exemplified by 59-0104, bis-pyridines (P) exemplified by 59-0145, and quinolines/quinoxalines (Q) exemplified by 59-0197, were tested in the ex vivo calvarial assay described hereinabove. The results of this assay are shown in Figure 9. In this assay, histomorphotometry and osteoblast numbers are measured and effects are measured on an arbitrary scale from 1-3: i.e., 1, 1+, 2-, 2, 2+, 3-, 3, wherein 1 denotes "inactive." In this assay, for example, FGF scores 2-3.

The scores are assigned to bone formation on the ectocranial periosteal surface.

The area immediately surrounding midline suture is excluded from analysis.

Score

- 0 Toxicity. Cell necrosis, pyknotic nuclei, matrix disintegration.
- 25
 1 A score of "1" is the bone forming activity seen in control cultures containing BGJb media + 0.1% bovine serum albumin. The periosteal surface is covered by one layer of osteoblasts (at about 50% of the bone surface, with the remaining 50% being covered by bone lining cells). A score of "1-" is assigned if less than 50% of the periosteal surface is covered by osteoblasts due to inhibitory activity or minor toxicity of the agents being tested. A score of "1+" is given if over 50% of the surface is covered by osteoblasts.
 - 2 A moderate increase in bone forming activity. 20-40% of the periosteal surface is covered by up to two layers of osteoblasts. A score of "2-" is given if less than 20% of the surface is covered by

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two layers and "2+" if more than 40% of the surface is covered by two layers of osteoblasts.

3 A score of "3" is the bone forming activity seen in control cultures containing BGJb media + 0.1% BSA +10% fetal bovine serum. More than 20% of the periosteal surface is covered by three layers of osteoblasts. The cells appear plump (size can exceed 100µm2). A score of "3-" is given if less than 20% of the periosteal surface is covered by three layers of osteoblasts and or osteoblast size is less than 100µm2. A score of "3+" has never been observed.

In all samples, toxicity, ectopic new or woven bone formation associated with osteoblasts, and osteoblast size as reflections of relative activity are noted.

The results shown in Figure 9 represent those obtained when the measurements were made by two different groups. It is clear that a number of compounds tested have activity in this assay. From the results shown in Figure 9, 59-0073, 59-0030, 59-0070, 59-0079, 59-0019, 59-0099, 59-0072 and 59-0103 show at least some indication of activity. 59-150 and 59-0104 showed activity when measured by one group but not the other; similarly, 50-0197 had this pattern. It appears that 59-0098 and 59-0203 are quite active in this assay and 59-0145 shows a consistent moderate activity.

Example 4

Stimulation of Bone Growth in Ovariectomized Rats (OVX Assay)

The compound 59-0145 was tested at various concentrations in the OVX assay conducted as described above. The increase in bone volume was measured by two different groups; one group found 5 μ g/kg/day of 59-0145 gave 21% increase over control whereas the second group found a 71% increase. At 50 μ g/kg/day, the first group found a 31% increase, and the second a 54% increase.

In another experiment, the lumbar vertebrae were measured and the above dosages of 59-0145 were shown to provide a beneficial effect, as shown in Figure 10.

In another experiment, 3 month old Sprague Dawley rats were ovariectomized and depleted for six weeks. At the end of the six weeks, treatment was started with subcutaneous administration of compound 59-0145. The treatment continued for 10

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weeks. At the end of the 10 weeks animals were sacrificed, bones were collected for qCT measurements and histology, serum was also collected for osteocalcin determinations

Figure 11 shows the percentage increase in trabecular bone (proximal tibia) compared to the placebo-treated group in chronic ovariectomized rats after 10 weeks of treatment. Compound 59-0145 causes significant increase in trabecular bone at doses of 50-500 µg/kg/day.

Figure 12 shows results of qCT and bone histomorphometry in proximal tibia in the first two panels, as well as serum osteocalcin levels at the time of sacrifice as a percentage increase compared to control group (OVX placebo-treated group).

Example 5

Chondrogenic Activity

Compounds 59-008, 59-0102 and 50-0197 were assayed for effects on the differentiation of cartilage cells, as compared to the action of recombinant human BMP-2. Briefly, a mouse clonal chondrogenic cell line, TMC-23, was isolated and cloned from costal cartilage of transgenic mice containing the BMP-2 gene control region driving SV-40 large T-antigen, generated as described in Ghosh-Choudhury et al Endocrinology 137:331-39, 1996. These cells were cultured in DMEM/10% FCS, and were shown to express T-antigen, and also to produce aggrecan (toluidine blue staining at pH 1.0) and Type-II collagen (immunostaining) by 7 days after confluence.

For measurement of alkaline phosphatase (ALP) activity, the technique of LF Bonewald et al. J Biol Chem (1992) 267:8943-49, was employed. Briefly, TMC-23 cells were plated in 96 well microtiter plates in DMEM containing 10% FCS at 4 x 10³ cells/well. Two days after plating, the cells were confluent and the medium was replaced with fresh medium containing 10% FCS and different concentrations of compounds or recombinant BMP-2. After an additional 2 or 5 days incubation, the plates were washed twice with PBS, and then lysing solution (0.05% Triton X-100) was added (100 µl/well). The cells were lysed by three freeze-thaw cycles of -70°C (30 min), followed by 37°C (30 min with shaking). Twenty microliters of cell lysates

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were assayed with 80 μ l of 5 mM p-nitrophenol phosphate in 1.5 M 2-amino-2-methylpropanol buffer, pH 10.3 (Sigma ALP kit, Sigma Chemical Co., St. Louis, MO) for 10 min at 37°C. The reaction was stopped by the addition of 100 μ l of 0.5 M NaOH. The spectrophotometric absorbance at 405 nm was compared to that of p-nitrophenol standards to estimate ALP activity in the samples. The protein content of the cell lysates was determined by the Bio-Rad protein assay kit (Bio-Rad, Hercules, CA). Specific activity was calculated using these two parameters.

At day 2, compounds 59-0008 (10° M), 59-0102 (10° M) and 59-0197 (10° M) increased ALP levels approximately 3-, 2- and 2.5-fold, respectively, as compared to the vehicle control. Recombinant BMP2 at 100, 50 or 10 ng/ml induced ALP levels approximately 10-, 4- or 1.5-fold, respectively, as compared to the vehicle control.

Example 6

Synthesis of Exemplary Compounds

A. Compounds of the invention wherein Ar¹ is of formula (1a) or (2a) can be synthesized by the procedures described in Dryanska, V. and Ivanov, K. Synthesis (1976) 1:37-8, using the described embodiments of Ar² and the appropriate analogous heterocycle embodied in Ar¹ substituted for the benzothiazole shown. Alternates to the olefin linker described can also be prepared using standard methods.

Compounds of the invention represented by exemplary Compound 59-0234, wherein Z is O, L is -CH=CH-, and Ar² is 2,4-dimethyoxy-phenyl, including Compounds 59-0211 and 59-0233, were prepared according to the following procedure describing synthesis of Compound 59-0234. Briefly, to a N,N-dimethylformamide (DMF) solution of 2-methylbenzoxazole (1 mmol) and 2,4-dimethoxybenzaldehyde (1 mmol) was added lithium t-butoxide (2 mmol). The reaction mixture was heated at 130°C for 3h. After cooling to room temperature, the reaction mix was poured into ether and washed several times with water. The organic phase was dried over Na₂SO₄, filtered, and evaporated to dryness. The residue was dissolved in a minimal amount of hot ether and, on standing overnight, the crystalline product was collected by filtration.

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B. Exemplary Compound 59-0150 where Ar¹ is of formula 4a was synthesized according to the procedure of Zamboni et al. J Med Chem (1992) 35:3832-44. First, 2-triphenylphosphoniumquinaldine bromide was synthesized as follows. Quinaldine (200 mmols), NBS (200 mmols) and a catalytic amount of benzoyl peroxide (10 mmols) were dissolved in 1 L of anhydrous carbon tetrachloride, and the mixture was stirred under reflux for 72 h. The mixture was cooled to RT and washed with water. The organic layer was drawn off, dried over anhydrous sodium sulfate, filtered and concentrated in vacuo to a dark oil. The crude mixture was dissolved in 500 ml of acetonitrile, then triphenylphosphine (200 mmols) was added and the mixture was refluxed under nitrogen overnight. It was then cooled to RT and diluted with anhydrous ether. The precipitated solid was collected by filtration, washed thoroughly with anhydrous ether and dried in vacuo overnight, yielding 25 g of a tan crystalline solid which showed a single spot by TLC (silica gel, 5 % MeOH in DCM).

A Wittig reaction was then performed. Briefly, under anhydrous conditions, 0.738 g (1.68 mmol) 2-triphenylphosphoniumquinaldine bromide in dry THF was cooled to -78°C. 1.0 ml (2.5 mmol, 2.5 M in hexanes) n-butyl lithium was slowly added, and this was allowed to react for 20 min. 0.301 g (1.68 mmol) 4-(N,N-dimethylamino)-2-methoxybenzaldehyde was then added. After a few minutes, the cold bath was removed, and this was left at ambient temp. for 18 h. The reaction was quenched by the addition of aq. sat. NH4Cl. This was extracted with EtAc, and the organics washed with additional NH4Cl, sat. NaHCO3, and sat. NaCl. This was dried over anhydrous Na₂SO₄ and the solvent stripped on a rotavapor. After flash chromatography (3.8 x 18.0 cm, EtAc/Hep. (1:3); Rf 0.29), 0.135 g (26% yield) of a red solid was obtained, mp=185-187 °C. ¹H NMR (CDCl₃) 8.04 (t, J=9.0, 2H), 7.94 (d, J=16.5, 1H), 7.74 (d, J=8.1, 1H), 7.73 (d, J=8.5, 1H), 7.66 (t of d, J₁=7.6, J_d=1.4, 1H), 7.61 (d, J=8.8, 1H), 7.43 (t of d, J₁=7.6, J_d=1.1, 1H), 7.29 (d, J=16.6, 1H), 6.37 (d of d, J₁=8.7, J₂=2.4, 1H), 6.22 (d, J=2.4, 1H), 3.93 (s, 3H), 3.03 (s, 6H). Anal. Caled for C₂₀H₂₀N₂O: C, 78.92; H, 6.62; N, 9.20. Found:

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- C. Exemplary Compound 59-0209 was synthesized according to the procedure of McOmie, J. F. W.; and West, D. E., Org Synth, Collect Vol V (1973) 412. Under anhydrous conditions, 0.510 g (1.95 mmol) NNC 59-0198 was slowly treated with 0.38 ml (3.9 mmol) BBr3 in dry CH2Cl2 at -78°C. After 15 min, this was allowed to warm to RT. After 2 h, the reaction was re-cooled to -78°C, and was then quenched by the addition of 1.6 ml (12 mmol) TEA in 25 ml MeOH. After 10 min, this was again allowed to warm to ambient temperature. After 1 h, this was concentrated to dryness on a rotavapor, and twice slurred in MeOH and re-stripped. Purification by flash chromatography (3.0 x 25.6 cm; EtAc/Hep. (1:2); Rf 0.25) gave 0.20 g (41% yield) of a slightly yellow solid, mp=271-272 °C (dec.). H NMR (DMSO-d6) 9.77 (s, 1H), 8.31 (d, J=8.6, 1H), 7.96 (d, J=8.6, 1H), 7.92 (d, J=8.3, 1H), 7.82 (d, J=8.6, 1H), 7.74 (d, J=16.6, 1H), 7.72 (t, J=7.6, 1H), 7.58 (d, J=8.6, 2H), 7.53 (t, J=7.6, 1H), 7.26 (d, J=16.5, 1H), 6.83 (d, J=8.6, 2H), Anal. Calcd for
- D. Exemplary Compound 59-0019 was synthesized as follows: to a xylene solution of 2-methylquinoxaline (10 mmol) and 4-dimethylaminobenzaldehyde (10 mmol) was added piperdine (2 ml). The solution was heated at reflux for 1 day, at which time DBU (200 µL) was added and reflux continued for another 2 days. The solution was cooled to RT and extracted with 1 M citric acid. The aqueous phase was repeatedly extracted with ether. The organic phases were pooled, dried over Na₂SO₄, filtered and evaporated to dryness. The residue was chromatographed on silica gel. The product was eluted using 8:1:1 dicholormethane:ether: hexane. Fractions containing pure product were pooled and evaporated to dryness. The residue was triturated with ether and filtered to give the desired compound.

C₁₇H₁₃NO: C, 82.57; H, 5.30; N, 5.66. Found:

E. Exemplary Compound 59-0183 and related Compound 59-0182 were synthesized according to the following procedure. Briefly, quinaldic acid (0.5 mmol) and HATU (0.5 mmol) were dissolved in 2.5 mL of anhydrous DMF in a vial and the solution was stirred at room temperature (RT). Diisopropylethyamine (1 mmol) was added dropwise to the above stirred solution and the mixture was stirred for 15 min.
The appropriate amine (0.5 mmol) was then added all at once to the above stirred

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mixture, and the mixture was stirred overnight at RT. It was then diluted with 25 mL of cold water with vigorous stirring, the precipitate was collected by filtration and washed thoroughly with water several times, and then dried in vacuo overnight. The product was purified by flash column chromatography over silica gel eluting with dichloromethane. The pure product was obtained as a tan powder.

- Exemplary Compound 59-0209 was synthesized according to the following procedure. Under anhydrous conditions, 0.510 g (1.95 mmol) NNC 59-0198 was slowly treated with 0.38 ml (3.9 mmol) BBr3 in dry CH2Cl2 at -78°C. After 15 min, this was allowed to warm to RT. After 2 h, the reaction was re-cooled to -10 78°C, and was then quenched by the addition of 1.6 ml (12 mmol) TEA in 25 ml MeOH. After 10 min, this was again allowed to warm to ambient temperature. After 1 h, this was concentrated to dryness on a rotavapor, and twice slurred in MeOH and re-stripped. Purification by flash chromatography (3.0 x 25.6 cm; EtAc/Hep. (1:2); Rf 0.25) gave 0.20 g (41% yield) of a slightly yellow solid, mp=271-272 °C (dec.), 1H NMR (DMSO-d6) 9.77 (s, 1H), 8.31 (d, J=8.6, 1H), 7.96 (d, J=8.6, 1H), 7.92 (d. J=8.3, 1H), 7.82 (d, J=8.6, 1H), 7.74 (d, J=16.6, 1H), 7.72 (t, J=7.6, 1H), 7.58 (d, J=8.6, 2H), 7.53 (t, J=7.6, 1H), 7.26 (d, J=16.5, 1H), 6.83 (d, J=8.6, 2H). Anal. Calcd for C17H13NO: C, 82.57; H, 5.30; N, 5.66. Found:
 - Other embodiments wherein AR1 is of formula (4a) can be synthesized as follows:
 - Quinoline azo compounds (59-0030 and 59-0078) may be prepared by reaction of 2-aminoquinoline with a nitrosobenzene (Brown, E. V., et al, J Org Chem (1961) 26:2831-33; Brown, E. V; (1969) 6:571-73).
 - Azo derivatives may be obtained by reaction of 2b. aminoquinolines with aldehydes, Morimoto, T., et al., Chem Pharm Bull (1977) 25:1607-09; Renault, J., et al., Hebd Seances Acad Sci, Ser C (1975) 280:1041-43; and Lugovkin, B. P.; Zh Obshch Khim (1972) 42:966-69.
 - Imino derivatives may be obtained by reaction of 2formylquinolines with anilines, Tran Quoc Son, et al., (1983) 21:22-26; Hagen,

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V. et al. Pharmazie (1983) 38:437-39; and Gershuns, A. L., et al., Tr Kom Anal Khim, Akad Nauk SSSR (1969) 17:242-50.

- d. Alternatively conjugated linkers can be formed by bromination of the olefin of 50-0197 with Br₂ in AcOH followed by elimination with DBU as set forth in Zamboni et al. J Med Chem (1992) 35:3832-44.
- H. Analogs having the constrained linker depicted below:

may be synthesized by reference to the methods described in Gorbulenko, N.V.
10 et al. Dokl Akad Nauk Ukr SSR (1991) 5:117-23, substituting the 6-membered heterocycle for benzothiazole.

Related, compounds having the constrained linker depicted below:

R= alkyl, OH

- may be synthesized by reference to the methods described in the following publications: Chaurasia, M.R. & Sharma, A.J. Acta Cienc Indica Chem (1992) 18:419-22; Kandeel, Maymona M., in Phosphorus, Sulfur, Silicon, Relat Elem (1990) 48:149-55; Salem, M.A. & Soliman, E.A. Egypt J Chem (1985) 27:779-87; Garin, J. et al. Synthesis (1984) 6:520-22, and Ayyangar N. R. et al. Dyes and Pigments (1990) 13:301-10.
 - I. Exemplary Compound 59-0145 can be synthesized according to the following method. Briefly, a mixture of 2-chloro-5-trifluoromethylpyridine (15 mmol), ethylenediamine (6 mmol), and diisopropylethylamine (18 mmol) was heated at reflux for 18 h. After cooling to room temperature, the solid mass was triturated with

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dichloromethane. The product was filtered and then suspended in hot EtOAc:CHCla (50:50, 800 mL) and filtered to remove insoluble material. The volume was reduced to ~200 mL by heating on a steam bath. On standing, crystals of pure product were deposited.

Related compounds may be synthesized by reference to the method described for Compound 59-0145, and by reference to the methods described in the following publications: Tzikas, A.& Carisch, C., US Patent No. 5,393,306, issued February 28. 1995; Herzig, P.& Andreoli, A., EP 580554, published January 26, 1994; Pohlke, R. & Fischer, W., DE 3938561, published May 23, 1991. Analogs containing the structure O-(CH₂)_n-O may be synthesized by reference to the previous citations, as well as the following publications: Kawato, T. & Newkome, G. Heterocycles (1990) 31:1097-104; Kameko, C. & Momose, Y. Synthesis (1982) 6:465-66; Tomlin, C.D.S. et al., GB 1161492, published August 13, 1969.

- Exemplary Compound 59-0097 and exemplary Compound 59-0201 15 were synthesized according to the following general procedure. Briefly, the isothiocyanate or isocyanate (1 mmol) was dissolved in 5 mL of anhydrous DMF in a vial and the solution was stirred at room temperature (RT). Diisopropylethyamine (2 mmol) was added dropwise to the above stirred solution followed by 3hydrazinobenzoic acid (1 mmol), and the mixture was stirred overnight at RT. It was then diluted with 50 mL of cold water with vigorous stirring. The precipitate was collected by filtration, washed thoroughly with water several times, and then dried in vacuo overnight. The product was purified by flash column chromatography over silica gel eluting with 5 % methanol in dichloromethane. The pure product was obtained as a red to purple powder. The compounds of the invention are produced by substituting for at least one phenyl group the appropriate heterocycle.
 - ĸ Compounds of the class represented by exemplary Compound 59-0045 can be synthesized using standard procedures for the synthesis of phenyl hydrazones of aromatic aldehydes, as described in any organic textbook. The synthesis of exemplary Compound 59-0045 may be performed as follows. Briefly, a suspension of 3-
- 30 hydrazinobenzoic acid (1 mmol), p-dimethylaminobenzaldehyde (1 mmol), and AcOH

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(50 μL) in EtOH:H₂O (4 mL:1 mL) was heated at 105°C in a sealed vial for 3 h. After cooling, a bright yellow solid was removed by filtration. The solid was washed with cold MeOH and then with ether to give pure product.

- L. Exemplary Compound 59-0096 and related, exemplary Compounds 59-0098, 59-0095, 59-0107, 59-0108, 59-0109, 59-0110 and 59-0200 may be synthesized according to the following general procedure. Briefly, the appropriate carboxylic acid (1 mmol) and HATU ([O-(7-azabenzotriazol-1-yl)-1,1,3,3-tritetramethyluronium hexafluorophosphate]; 1 mmol) were dissolved in 5 mL of anhydrous DMF in a vial and the solution was stirred at room temperature (RT). Diisopropylethyamine (3 mmol) was added dropwise to the above stirred solution and the mixture was stirred for 15 min. 3-Hydrazinobenzoic acid (1 mmol) was then added all at once to the above stirred mixture and the mixture was stirred overnight at RT. It was then diluted with 50 mL of cold water with vigorous stirring and the precipitate was collected by filtration and washed thoroughly with water several times and then dried in vacuo overnight. The product was purified by flash column chromatography over silica gel eluting with 5 10 % methanol in dichloromethane. The pure product was obtained as a tan crystalline solid.
- M. Exemplary Compound 59-0097 and exemplary Compound 59-0201 were synthesized according to the following general procedure. Briefly, the isothiocyanate or isocyanate (1 mmol) was dissolved in 5 mL of anhydrous DMF in a vial and the solution was stirred at room temperature (RT). Diisopropylethyamine (2 mmol) was added dropwise to the above stirred solution followed by 3-hydrazinobenzoic acid (1 mmol), and the mixture was stirred overnight at RT. It was then diluted with 50 mL of cold water with vigorous stirring. The precipitate was collected by filtration, washed thoroughly with water several times, and then dried in vacuo overnight. The product was purified by flash column chromatography over silica gel eluting with 5 % methanol in dichloromethane. The pure product was obtained as a red to purple powder.
- N. Exemplary Compound 59-0125 where R¹ is methoxy, m is 1, the linker 30 is azo and Ar² is di(2-hydroxyethyl) amino, and related compounds having an azo

linker can be prepared in a manner similar to that described by Alberti, G. et al. Chim Ind (Milan) (1974) 56:495-97.

O. Exemplary Compound 59-0124 and related, constrained analogs having the structure depicted below:

may be synthesized by reference to the methods described in Gorbulenko, N.V. et al. Dokl Akad Nauk Ukr SSR (1991) 5:117-23.

Related, constrained analogs having the structure depicted below:

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may be synthesized by reference to the methods described in the following publications: Chaurasia, M.R. & Sharma, A.J. Acta Cienc Indica Chem (1992) 18:419-15 22; Kandeel, Maymona M., in Phosphorus, Sulfur, Silicon, Relat Elem (1990) 48:149-55; Salem, M.A. & Soliman, E.A. Egypt J Chem (1985) 27:779-87; Garin, J. et al. Synthesis (1984) 6:520-22, or according to the representative procedure described in Ayyangar N. R. et al. Dyes and Pigments (1990) 13:301-10.

Claims

A method to treat a condition in a vertebrate animal characterized by a deficiency in, or need for, bone growth or replacement and/or an undesirable level of bone resorption, which method comprises administering to a vertebrate subject in need of such treatment an effective amount of a compound of the formula:

wherein each of Ar¹ and Ar² is independently a substituted or unsubstituted phenyl, substituted or unsubstituted anomatic system containing a 6-membered heterocycle or a substituted or unsubstituted aromatic system containing a 5-membered heterocycle; and

L is a linker which spaces Ar1 from Ar2 at a distance of 1.5Å-15Å.

The method of claim 1 with the proviso that in the compound of
 formula (1), if Ar¹ is

and L is

Ar2 cannot be

wherein

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R1 is selected from the group consisting of:

H, OH, C1-C4 alkyl, C1-C4 alkoxy, C1-C4 alkylthio, halo and (C1-C12)alkyl-carbonyloxy;

R2 is selected from the group consisting of:

H, OH, halo, C1-C6 alkyl, C1-C6 alkenyl, C1-C6 alkoxy and (C1-C12)alkyl-carbonyloxy;

R3 is selected from the group consisting of:

H, OH, halo, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 alkenyl and (C1-C12)alkyl-carbonyloxy;

R4 is selected from the group consisting of:

H, OH, halo, C1-C6 alkyl, C1-C6 alkoxy and (C1-C12)alkyl-carbonyloxy;

R5 is selected from the group consisting of:

H, halo, C1-C6 alkyl, C1-C6 alkoxy, -OC(=O)Me, phthalimide and (C1-C12)alkyl-carbonyloxy;

R6 is selected from the group consisting of:

20 H, OH, -NH₂, Cl-C4 alkyl and C1-C4 alkoxy;



R7 is selected from the group consisting of:

H, C1-C4 alkyl, (C1-C4)alkyl-carbonyl and (C7-C10)arylalkyl;

R8 is selected from the group consisting of:

H, OH, halo, -CF3, C1-C4 haloalkyl, C1-C4 alkyl, C1-C4 alkoxy,

5 -NHC(=0)Me and -N(C1-C4 alkyl)₂:

R9 is selected from the group consisting of:

H, OH, halo, -CN, -NO₂, C1-C4 haloalkyl, C1-C8 alkyl, C1-C8 alkoxy, -NHC(=O)Me and -OC(=O)Me;

R10 is selected from the group consisting of:

H, OH, halo, -CN, -NO₂, C1-C4 haloalkyl, -CO₂H, C1-C12 alkyl, C1-C12 alkoxy, phenyl, C1-C12 alkenyl, (C1-C4)alkoxycarbonyl, -NHC(=O)Me, (C1-C4)alkylcarbonyl, (C1-C12)alkylcarbonyloxy and heteroaryl;

R11 is selected from the group consisting of:

H, OH, halo, C1-C4 haloalkyl, -CF3, C1-C4 alkyl, -NH2, C1-C4 alkoxy,

15 -NHC(=0)Me, C1-C4 alkenyl, (C1-C4)alkoxycarbonyl, (C1-C4)alkylcarbonyl, and (C1-C4)alkylcarbonyloxy;

R¹² is selected from the group consisting of:

H, OH, -NH₂, C1-C4 alkyl, C1-C4 alkoxy and (C1-C4)alkylcarbonyl; and R¹³ is selected from the group consisting of:

H, OH, halo, -NH2, C1-C4 alkyl, C1-C4 alkoxy -N(C1-C4)alkyl.

3. The method of claim 1 with the proviso that in the compound of formula (1), if Ar^1 is

$$R^{a}_{m}$$
 Z
 Z
 Ar^{1}

wherein R* is a noninterfering substituent; m is an integer of 0-4;

each dotted line represents an optional π -bond;

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each Z is independently N, NR, O, S, CR or CR₂, where each R is independently H or alkyl (1-6C);

X is O, S, SO or SO2; and

L is a flexible linker.

5 then Ar² is not a substituted or unsubstituted 6-membered aromatic ring; if Ar¹ is

wherein R* is a noninterfering substituent:

n is an integer of 0 and 5; and

L is a flexible linker which does not contain nitrogen or is a constrained linker, then Ar^2 is not a substituted or unsubstituted phenyl or a substituted or unsubstituted naphthyl.

 $4. \qquad \text{The method of claim 2 with the further proviso that in the compound of} \\ 15 \qquad \text{formula (1), if } Ar^l \text{ is}$

$$R^{a}_{m}$$
 X X Ar^{1}

wherein R* is a noninterfering substituent;

m is an integer of 0-4;

each dotted line represents an optional π-bond:

each Z is independently N, NR, O, S, CR or CR₂, where each R is independently H or alkyl (1-6C);

X is O, S, SO or SO2; and

L is a flexible linker.

then Ar2 is not a substituted or unsubstituted 6-membered aromatic ring;

if Ar1 is

wherein Ra is a noninterfering substituent:

n is an integer of 0 and 5; and

L is a flexible linker which does not contain nitrogen or is a constrained linker, then Ar^2 is not a substituted or unsubstituted phenyl or a substituted or unsubstituted naphthyl.

5. The method of any of claims 1-4 wherein Ar1 is

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wherein each R* is a noninterfering substituent:

m is an integer of 0-4:

the dotted line represents an optional π bond;

Z is O, S, NR or CR₂ in formula (1) or is CR in formula (2) where each R is independently H or alkyl (1-6C); and

L is a flexible conjugating or nonconjugating linker or is a constrained linker.

 The method of claim 5 wherein L is a flexible conjugating or nonconjugating linker.

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The method of claim 6 wherein Z is NR.

The method of claim 7 wherein Ar² is a substituted or unsubstituted aromatic system containing a 5-membered heterocycle or is

wherein R^b is a noninterfering substituent and n is an integer of 0-5; and/or

L is -N=N-, -N=CR-, -RC=CR-, -NRNR-, -CR₂NR-, -CR₂CR₂-, -NRCO- or

-CONR- where R is H or alkyl (1-6C); and/or

the dotted line represents a π bond.

- The method of claim 7 wherein each R^b is independently halo, OR, SR,
 NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.
- 10. The method of claim 7 wherein
 m is 0; and/or

 15 each R^b is independently OR, SR or halo;
 where n=2 and at least one R^b is OR or SR; and/or
 L is -NHCO- or -CR=CR-.
- The method of claim 7 wherein said compound is 59-0100, 59-103,
 59-104, 59-105 or 59-106.
 - 12. The method of claim 6 wherein Z is S
- The method of claim 12 wherein Ar² is a substituted or unsubstituted
 aromatic system containing a 6-membered heterocycle or is of the formula

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wherein R^b is a noninterfering substituent and n is an integer of 0-5; and/or L is -N=N-, -N=CR-, -RC=CR-, -NRNR-, -CR₂NR-, -CR₂CR₂-, -NRCO- or -CONR- where R is H or alkyl (1-6C); and/or

5 the dotted line represents a π bond.

 The method of claim 13 wherein each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.

15. The method of claim 13 wherein m is 0; and/or each R^b is independently OR, SR or halo; where n=2 and at least one R^b is OR or SR; and/or L is -NHCO- or -CR=CR-.

- 16. The method of claim 12 wherein the compound is compound number 59-002, 59-0070, 59-0072, 59-0099, the benzothiazole counterpart of 59-0104, 59-0102, 59-0144, 59-0147, 59-0149, 59-0186, 59-0187, 59-0192, 59-0193, 59-0195, 59-0197, 59-0202, 59-0204, 59-0205, 59-0206, 59-0207, 59-0208, and 59-0210.
- The method of claim 16 wherein the compound is the benzothiazole counterpart of 59-0104, or is compound number 59-0147, 59-0205 or 59-0210.
- 25 18. The method of claim 6 wherein Z is CR or CR₂.
 - 19. The method of claim 18 wherein Ar2 is

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wherein R^b is a noninterfering substituent and n is an integer of 0-5; and/or L is -N=N-, -N=CR-, -RC=CR-, -NRNR-, -CR₂NR-, -CR₂CR₂-, -NRCO- or -CONR- where R is H or alkyl (1-6C); and/or

5 the dotted line represents a π bond.

20. The method of claim 19 wherein each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.

The method of claim 6 wherein Z is O.

22. The method of claim 21 wherein Ar2 is of the formula

wherein R^b is a noninterfering substituent and n is an integer of 0-5; and/or L is -N=N-, -N=CR-, -RC=CR-, -NRNR-, -CR₂NR-, -CR₂CR₂-, -NRCO- or -CONR- where R is H or alkyl (1-6C); and/or

the dotted line represents a π bond.

- 20 23. The method of claim 19 wherein each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.
- The method of claim 21 wherein the compound of formula (1) is
 compound number 896-5005.

- 25. The method of claim 5 wherein L is a constrained linker.
- The method of claim 25 wherein Z is S or NR; and/or wherein L is selected from the group consisting of

wherein Ar2 is

wherein Rb is a noninterfering substituent and m is 0-4.

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- 27. The method of claim 25 wherein each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or comprises an aromatic system.
- 15 28. The method of claim 25 wherein the compound of formula (1) is 59-0124.
 - The method of any of claims 1-4 wherein Ar¹ is of the formula

$$R^a \longrightarrow N$$
 (3a)

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wherein each R^* is independently a noninterfering substituent or is H; and Z is NR, S or O, wherein R is alkyl (1-6C) or H.

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30. The method of claim 29 wherein Z is S; and/or wherein Ar² is

5 wherein R^b is a noninterfering substituent and n is an integer of 0-5; and/or L is -N=N-, -N=CR-, -RC=CR-, -NRNR-, -CR₂NR-, -CR₂CR₂-, -NRCO- or -CONR- where R is H or alkyl (1-6C); and/or

the dotted line represents a π bond; and/or each R³ is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or comprises an aromatic system.

31. The method of any of claims 1-4 wherein Ar1 is

$$R^a_m \longrightarrow Z Z$$
 (4a)

wherein Ra is a noninterfering substituent;

15 m is an integer of 0-4;

each dotted line represents an optional π -bond;

each Z is independently N, NR, CR or CR_2 , where each R is independently H or alkyl (1-6C) with the proviso that at least one Z is N or NR.

The method of claim 31 wherein Ar¹ is

33. The method of claim 31 wherein Ar2 is

$$R^{b}_{n}$$
 N^{b}_{m} N^{b}_{m} (vi) or N^{b}_{m} (via

wherein each R^b is independently a noninterfering substituent, and n is 0-5 and m is 0-4: and/or

 $\label{eq:Lis-N=N-,-RC=CR-,-RC=N-,-NRCO-,-NRCR2-,-NRCR2-CR2-,-NRCR2-CO-,-NRNR-,-CR2-CR2-,-NRCR2-CR2-NR-,-NRCR2-CRNR- or -NRCO-CR2-NR-.$

- The method of claim 33 wherein each R^b is independently halo, OR,
 SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.
 - 35. The method of claim 32 wherein
 each R^b is NR₂ or OR and m and n are 0, 1 or 2; and/or
 L is -CR=CR-,-N=N- or -NRCO-
 - The method of claim 35 wherein the compound of formula (1) is
 59-0030, 59-0078, 59-0091, 59-0093, 59-0150, 50-0197, 59-0198, 59-0199 or
 59-0480.

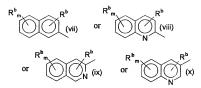
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37. The method of claim 31 wherein Ar₂ is substituted or unsubstituted quinolyl or naphthyl of the formula

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wherein each Rb is a noninterfering substituent and m is 0-4.

- The method of claim 37 wherein L is -N=N-, -RC=CR-, -RC=N-,
 -NRCO-, -NRCR₂-, -NRCR₂CR₂-, -NRCR₂CO-, -NRNR-, -CR₂CR₂-,
 -NRCR₂CR₂NR-, -NRCR=CRNR- or -NRCOCR₂NR-; and/or wherein each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system and m is 0, 1 or 2.
- 10 39. The method of claim 38 wherein the compound of formula (1) is 59-0089, 59-0090, 59-0092 or 59-0094.
 - 40. The method of claim 31 wherein Ar1 is

- wherein each Ra is a noninterfering substituent and m is 0-4.
- 41. The method of claim 40 wherein L is -N=N-, -RC=CR-, -RC=N-,
 -NRCO-, -NRCR₂-, -NRCR₂CR₂-, -NRCR₂CO-, -NRNR-, -CR₂CR₂-,
 -NRCR₂CR₂NR-, -NRCR=CRNR- or -NRCOCR₂NR-; and/or
 Ar² is

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wherein R^b is a noninterfering substituent and n is an integer of 0-5; and/or wherein each R^b is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.

- The method of claim 41 wherein the compound of formula (1) is
 59-203, 59-285 or 59-286.
 - 43. The method of claim 31 wherein L is a constrained linker.

44. The method of any of claims 1-4 wherein Ar1 is

wherein each R² is independently a noninterfering substituent; m is an integer of 0-4:

- each Z is independently N or CR, where R is H or alkyl (1-6C), with the proviso that at least one Z must be N and at least one Z must be CR.
- 45. The method of claim 44 wherein L is a flexible conjugating or nonconjugating linker; and/or

20 wherein Ar² is

$$R^b_m$$
 (v) or R^b_m $z=z$ (v) $z = z$

wherein each Rb is independently a noninterfering substituent, and

in (vi) each Z is independently N or CR, where R is H or alkyl (1-6C), with the proviso that at least one Z must be a N and at least one Z must be CR.

46. The method of claim 45 wherein the compound of formula (1) is of the 5 formula

- 47. The method of claim 46 wherein L is -N=N-, -RC=CR-, -RC=N-, -NRCO-, -NRCR₂-, -NRCR₂CR₂-, -NRCR₂CO-, -NRNR-, -CR₂CR₂-, -NRCR₂CO-, -NRNR-, -CR₂CR₂-, -NRCR₂CR₂-, -NRCR₂CR₂-, -NRCR₂CR₂-, -NRCR₂CR₂-, -NRCR₂CR₂-, -NRCR₂-, -NRC
- 10 -NRCR2CR2NR-, -NRCR=CRNR- or -NRCOCR2NR-; and/or

wherein each R^{4} and R^{b} is independently halo, OR, SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^{b} comprises an aromatic system and each m and n is independently 0, 1 or 2.

- 15 48. The method of claim 47 wherein L is -NHCR₂CR₂NH-, m is 1 and R* is CF₃ para to L.
 - 49. The method of claim 48 wherein the compound of formula (1) is 59-0145, 59-0450, 59-0459 or 59-0483.
 - 50. The method of any of claims 1-4 wherein Ar¹ is

wherein each R^a is a noninterfering substituent; and n is an integer of 0 and 5, and wherein L is a flexible linker that contains at least one nitrogen; and/or

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wherein Ar2 is of the formula

and L is -N=N-, -RC=CR-, -RC=N-, -NRCO-, -NRCR₂-, -NRCR₂CR₂-, -NRNRCR₂CR₂-, -NRNRCR₂CR₂-, -NRNRCR₂CR₂-, -NRNRCOCR₂-, -NRNRCOCR₂-, -NRNRCOCR=CR-, -NRNRCOCR-, -NRNRCONR-, -NRNRCSNR-, -NRNR-, -CR₂CR₂-, -NRCR₂CR₂NR-, -NRCR=CRNR- or -NRCOCR₂NR-.

- The method of claim 50 wherein each R^b is independently halo, OR,
 SR, NR₂, NO, NO₂, OCF₃ or CF₃ wherein R is H or alkyl (1-6C) or R^b comprises an aromatic system.
- The method of claim 50 wherein L is -CR=CRCONRNR-,
 -CR=CRCSNRNR-, -CR₂CONRNR- -CR₂CSNRNR-, -NRNRCONR- or
 -NRNRCSNR- and/or

Rb is -NR2 and n=1 wherein Rb is in the para position.

- 53. The method of claim 50 wherein R* is -COOR and m is 1
- 20 54. The method of claim 52 wherein the compound of formula (1) is 59-0045, 59-0095, 59-0096, 59-0097 or 59-0098.
 - 55. A pharmaceutical composition for use in a method to treat a condition in a vertebrate animal characterized by a deficiency in, or need for, bone growth replacement and/or an undesirable level of bone resorption which composition contains a pharmaceutically acceptable excipient and an effective amount of a compound of the formula set forth in any preceding claim.

56. A compound for use in preparing a composition for use in the treatment of a condition in a vertebrate animal characterized by a deficiency in, or need for, bone growth replacement and/or an undesirable level of bone resorption which method comprises administering said composition to a vertebrate subject, said compound set forth in any preceding claim.

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Ar¹ - lin 1.5 -	(I)	
Ar ^l	Ar ²	
contains 5-membered heterocycle	substituted or unsubstituted benzene	II-A
contains 5-membered heterocycle	substituted or unsubstituted naphthalene	II-B
contains 5-membered heterocycle	contains 6-membered heterocycle	II-C
contains 5-membered heterocycle	contains 5-membered heterocycle	II-D
contains 6-membered heterocycle	substituted or unsubstituted benzene	II-E
contains 6-membered heterocycle	substituted or unsubstituted naphthalene	II-F
contains 6-membered heterocycle	contains 6-membered heterocycle	II-G
substituted or unsubstituted naphthalene	substituted or unsubstituted benzene	II-H
substituted or unsubstituted naphthalene	substituted or unsubstituted naphthalene	II-I
substituted or unsubstituted benzene	substituted or unsubstituted benzene	II-J

2/146

5x 10° C	uM RE							
0S-8		****						
DS-8			EAD 2 A	VERAGE IN	DUCTION AVE	E-BASAL %	MAX	
	100.0001	0.21	0 22	0.22.	0 18!	-0.99	-17 80	. —
	31 250	3.96	4 44	4 20	3.49	3.001	54.26	
	9.766	6 99	6.46	6 72	5.59	5.521	100.00	
	3.052	4 62	4.88	4.75	3.95	3.55	64 22	
	0 954	3.13	3 16:	3.14	2.61	1.94	35.12	
	0 298	2.75	2 59	2.67	2.221	1.47	26.581	
	0.093	2.10	2.34	2.07	1.72!	0.871	15.77	
	0.029	1 56	7.	: 63	1.38	0.43	7.80	
	0.0091	1.45	1 42	1 44	1.19	0.23	4.21!	
	0.0028	1 28	1.371	1.33	1.10	0.12	2.251	
	0.0000	1 32	1.30	1 31				
	0.0000	1 20	- 00	1:0				
	AV	ERAGE BA	SAL	1 20				
Y NAX	50.00 ±		_	سمره	_/	/\		<u>→</u> 05-8 .
•	0.00 0.00	0 01		0.10 uM: 03.4	1.00	10.00	100.00	

Figure 2

3/146

NNC#	IMOL.WEIGHT	Concentration	· % Response :
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50-0194 50-0194	430.33		
300194		100.00 uM	-19.190i 32.450i
	+	9.77 juM	-14.240
	1	3.05 UM	-11.330
		953.67 nM	-12.790
		298.02 nM	-13.450
	1	93.13 nM	-12.2901
		29.10InM	-9.440
		9.09 nM	-6.450
	+	2.84 nM	-8.130 -3.320
	-i	000.101pm	-9.3201
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50-0195	275.36		1
50-0195	2/3.30	100.00 uM	4.6301
350133		31.25 uM	16.790
·		9.77 uM	62.830
		3.05 uM	102.7201
		953.67 InM	60.860
		298.02 nM	32.4501
		93 13 nM	19.3401
		29.10 nM	17.220
	+	9.09 nM	5.640
		2.84 nM 888.16 pM	5.6401
		800.18 DW	3.6401
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50-0196	276.30		
50-0196		100.00 luM	-16.210
		31.25 uM 9.77 uM	-8.5601
		3.05(uM	27.7901
		953.67 nM	1 18.3901
	1	298.02 nM	6.2301
		93.13 nM	12.420
		29.10 nM	12.630
		9.09 inM	8.590
		2.84 nM	7.970
		1 688.181pM	5.0601

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50-0197	274.3	,	1 1
50-0197	1	1 100.00 JuM	
	·	31.25 uM	-18.2501
	1	9.77 uM	114,9001
		3.05 uM	93.790
		953.87 InM	205.5301
		298.02 nM	242.920
	-	93.13 nM	195.890
		29.10 nM	115.320
		9.09 nM	85.630
	-	2.84 nM	54.380
	 	888.18 pM	33.180
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9-0019	59-0019		1 1
		100.00 uM	-22.240
		31.25 uM	-22.8701
		9.77 uM	-17.470
		3.05 uM	74.490
		953.67 nM	1 198.0801
		298.02 nM	258.340
		93.13 nM	225.3501
		29.10 inM	75.2201
		9.09 nM	24.0301
		2.84 nM 888.18 pM	34.480
		000.18 DM	-3.7401
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P-0020	266.73		_
		100 00 uM	-16.510
		31.25 uM	-16.040
		9.77 juM	-0.270
		3.05 uM	96.4901
		953.87 InM	153.3201
		298.02 nM	110.240
		93.13 inM	60.030.

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29.10InM	37.870;
9.09 nM	24.8201
2.84 nM	20.5001
888.18 pM	13.3101
	9.09 nM 2.84 nM

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	284.72		
9-0021 I	284.721	100.001uM	-16.310
	<del></del>	31.251uM	1 -12.8501
		9.77 (uM	84.1301
		3.05 luM	1 89.9401 1 85.7501
		953.671nM 298.021nM	65.750
i	i	93.13 nM	22.560
		29.10 nM	25.0201
		9.09 InM	13.9101
		2.84 inM	33.2701 15.5001
		888.181pM	10.0001
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9-0022	200.371	100.00 UM	7.250
1		31.25 luM	-2.070;
		9.77 luM	-0.2701
		3.05luM	4.3901
		953.67 InM 298.02 InM	-1.8001
		93.131nM	-0.2001
	i	29.10 inM	i -3.270
		9.091nM	1.130
		2.84 nM	2.590
		888.18 pM	2.4601
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59-0023	239.28		
59-0023		100.00 JuM	-12.720!
		31.25 luM	33.1401
	!	9.77 tuM 3.05 tuM	56.5001 29.5501
		953.67 inM	25,3801
	<del></del>	298.02 InM	1 15.7001
· · · · · · · · · · · · · · · · · · ·	-	93.13 InM	7.3801
		29.10InM	-9.7101
		9.09InM	1 1.0001
		2.84 nM 888.18 pM	1 4.5201

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59-0024	220.28		1 1
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59-0025	224.31	ľ	
59-0025		100.00 uM	-25.590
		31.25 uM	14.150
		9.77 uM	50.590
		3.05 vM	57,880
		953.67 InM	38.9001
		298.02 nM	28.530
		93.13 nM 29.10 nM	19.660
		9.09 nM	17.490
		2.84 nM	-0.600i -4.190i
		888.18 pM	4.670
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9-0026	248.29		
9-0026		100.001uM	-29.830
		31.25 uM	-9.4401
		9.77 uM	i -10.4701
		3.05luM	45.220
		953.67 nM	107.760
		298.02 nM 93.13 nM	86.7201
	<del></del>	29.10inM	36.8501
		9.09 nM	8.520
		2.84 nM	-1.240
		888.18 pM	4.020

NH H			
59-0027			
59-0027	250.30		
		100.00 uM	89.8101
		31.25/uM	54.6701
		9.77 uM	44 940
		3.05 uM	23.780
		953.67 InM	8.380
		298.02 inM	6.330
		93.13 nM 29.10 nM	. 7.3601
		9.09 nM	3.3801
		2.84 inM	-1.620
		2.54 InM 888.18 pM	+3.670
		000.10 IPM	-0.720
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59-0028 59-0028	226.28		
		100.00 luM	-26.7501
		31.25 uM	-16.740
		9.77 uM	29.550
		3.05 uM	100.580
		953.67 InM 298.02 InM	54.940
	<del></del>		31.340
		93.13 nM 29.10 nM	7.500
	<del>+</del>	29.10 nM 9.09 nM	7.5001
	<del></del>	9.09InM 2.84InM	7.8801
		2.84 nM 888.18 pM	3.140
		688.181DM	4.670:

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59-0029	249.27		'
59-0029		100.00 uM	-15.1601
	!	31.25 uM	41.940
		9.77 uM	35.630
18	1	3.05 UM	7.120
		953.87 nM	21.880
	1	298.02 nM	1 15.540
	1	93.13 nM	1.810
		29.10 nM	1.370
	ļ	9.09 nM	1 12.1401
		2.84 mM	4.230
		888.18 pM	9.0401
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59-0030A	233.28	1	
59-0030 A	233.28		
		100.00 uM	-27.970
		31.25 JuM	-22.8301
		9.77 uM 3.05 uM	-5.4201
		953.87 nM	57.280
		298.02InM	72.6201
		93.13InM	
		29.10inM	29.990
		9.09 nM	14.0301
		2.84 InM	3.870 8.970
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9-0031	231.30	i	
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9-0031	231.301	100.00 luM	-25.7901
9-0031		31.25 uM	-17.810
9-0031		31.25 uM 9.77 uM	
		31.25 uM 9.77 uM 3.05 uM	-17.8101 - 20.8401 1 87.3801
9-0031		31.25 uM 9.77 uM 3.05 uM 953.67 nM	17.8101 - 20.8401 - 87.380 - 49.320
		31.25 µM 9.77 µM 3.05 µM 953.67 nM 298.02 nM	17.8101 - 20.8401 1 87.3801 1 49.3201 1 43.1101
		31.25 µM 9.77 µM 3.05 µM 953.67 nM 288.02 nM 93.13 nM	17.8101 - 20.8401 - 87.3801 - 49.3201 - 43.1101 - 29.5301
		31.25 µM 9.77 µM 3.05 µM 953.67 nM 298.02 nM 93.13 nM 29.10 nM	17.8101 - 20.8401 1 87.3801 1 49.3201 1 43.1101 2 9.5301 1 1.8101
		31.25 µM 9.77 µM 3.05 µM 953.67 nM 288.02 nM 93.13 nM 29.10 nM 9.09 nM	-17.8101 - 20.8401 1 87.3801 2 49.3201 1 43.1101 - 29.5301 1 1.8101 1 1.2201
		31.25 µM 9.77 µM 3.05 µM 953.67 nM 298.02 nM 93.13 nM 29.10 nM	17.8101 - 20.8401 1 87.3801 1 49.3201 1 43.1101 2 9.5301 1 1.8101

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59-0032			
59-0032	248.29		
		100.00luM 31.25luM	-7.780
		9.77 UM	40.7501
		3.05 JuM	25.700
		953.87 InM	31,170
		298.02 nM	34.4101
		93.13 nM	3.570
		29.10 nM	4.320
		9.09 nM	-10.000
		2.84 nM 888.18 pM	5.650
		000.18 PM	11.990
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59-0033	248.29	:1	1
59-0033	240.291	100.001uM	
		31.25 uM	-28.180
		9.77 uM	55.3001
		3.05 uM	49.7101
		953.87 InM	47.4101
		298.02 nM	0.250
		93.13 nM	7.980
		29.10 nM	-8.940
		9.09 nM 2.84 nM	-7.630I
		2.04 I M 888.18 I pM	-0.4001 -5.9801
		000.101pm	3.9601
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59-0034			
7A AAA .	268.34		
59-0034		100.001uM	-28.51
		31.25/uM 9.77/uM	73.58
		3.05 uM	73.58
		953.67 inM	20.09
		298.02 nM	16.87
		93.13 InM	15.23
		29.10 nM	28.83
		9.09InM	9.08

	2.841nM 888.181pM	0.661
	9.091nM	2.59
		-2.91
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		-9.41
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	31.25 uM	-11.99-
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	888.18/pM	-16.53
<u> </u>	2.84 inM	-9.41
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		-5.49
		0.321
	3.051uM	1 -1.95;
	9.77 iuM	4.541
	31.25 uM	3.25
	100.00 JuM	-0.961
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	888.18 pM	-7 131
	2.84 nM	-3.561
	9.09InM	15.58
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59-0038	291.36		( )
59-0038		100,001uM	-23.430
	i	31.25 JuM	-8.3901
		9.77 JuM	-0.1001
		3.05 luM	-2.8601
		953.67 InM	1 -2.240
		298.02 InM	3.900
		93.13 nM	6.350
		29.10)nM	1.150
		9.09 nM	6.960
<del></del>		2.84 inM	4.3901
<del></del>		888.181pM	-0.3801
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59-0039	312.35	I	1 1
9-0039	514.55	100.00 uM	14.170)
		31.25 uM	7.6201
		9.77 uM	1.9401
	1	3.05 uM	-3.1401
	1	953.67InM	-7.770
		298.021nM	-5.9801
		93.13InM	-8.820:
		29.101nM	-2.390
1		9.091nM	-16.580i
		2.841nM	-4 4801
		888.181pM	-0.450:
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9-0040 9-0040	290.37	!	1
		100.001uM	20 400
		31.25 uM	-17.310
		9.77 LuM	-8.110
		3.051uM	32.180
		953.67 inM	36.180
		298.02!nM	17.440
		93.13InM	2.040
<u>-</u>		29.10 nM	10.350
	-	9.09InM	F=6.070 I
		2.84 jnM 888.18 jpM	13.440

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59-0041	501.90		1 !
59-0041	501.90	100.00 uM	10.32
		31.25 UM	-10.37:
	-	9.77 luM	
			3.31
			-0.77
		298.02 InM	-1.56
			3.55
		29.10 nM	-11.24
		9.09 InM	0.25
		2.84 nM	-0.27
		888.18 pM	2.021
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59-0042	281.36		.1 1
59-0042		100.00 uM	163.51
		31.25 uM	-7.67
		31.25 UM 9.77 UM	-7.57 9.41
		31.25 uM 9.77 uM 3.05 uM	9.41 0.75
		31.25 uM 9.77 uM 3.05 uM 953.67 nM	-7.67  9.41  1 0.75  6.11
		31.25iuM 9.77iuM 3.05iuM 953.67inM 296.02inM	-7.671 9 411 1 0.751 6.111 3.821
		31.25 iuM 9.77 iuM 3.05 iuM 953.67 inM 296.02 inM 93.13 inM	-7.67  9.41  1 0.75  1 6.11  3.82  1 2.54
		31,25 iuM 9,77 iuM 3,05 iuM 953,67 inM 296,02 inM 93,13 inM 29,10 inM	-7.67  9.41  1 0.75  1 6.11  3.82  1 2.54  1 4.07
		31.25 µM 9.77 µM 3.05 µM 953.67 nM 296.02 nM 93.13 nM 29.10 nM 9.09 nM	-7.67  9.41  0.75  6.11  3.62  2.54  4.07  9.73
		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
		31.25 µM 9.77 µM 3.05 µM 953.67 nM 296.02 nM 93.13 nM 29.10 nM 9.09 nM	-7.67  9.41  0.75  6.11  3.62  2.54  4.07  9.73
		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
9- H- N- N- N- N- N- N- N- N- N- N- N- N- N-		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
0 H N N N N N N N N N N N N N N N N N N		31.25 µM 9.77 µM 3.05 µM 953.67 µM 296.02 µM 93.13 µM 29.10 µM 29.09 µM 2.64 µM	7.571 9.441 0.751 0.751 1.511 3.821 2.244 4.071 -4.073 -4.022 18.37
9-043 59-0043		31.25 IuM 9.77 IuM 3.05 IuM 95.3 67 IuM 99.02 IuM 99.02 IuM 90.11 IuM 20.10 IuM 20.10 IuM 20.10 IuM 20.10 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06 IuM 8.06	-7.87    941    0.75    6.11    3.82    2.54    4.07    -9.73    -0.02
95-0043 59-0043	280.29	31.25 IuM 9.77 IuM 3.05 IuM 95.3 67 InM 295.02 InM 295.02 InM 29.10 InM 2 10 InM 2 10 InM 2 84 InM 888 18 I IDM 100.00 IuM 11.25 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 IuM 17.75 Iu	7-571 9 411 0 751 6 111 3 .521 2 .541 4 .071 -9 731 -0 .021 18 .37
9-0043 99-0043	280.29	31.29 IuM 9.77 IuM 3.09 IuM 95.36 7 InM 295.02 InM 295.02 InM 95.13 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM 20 InM	7-571 9-41 1 0.751 1 0.751 1 3.821 1 4.071 4.072 1 0.022 1 8.37 1 1 2 2 5 6 9 1 2 2 6 6 9 7 4
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	31.25 IUM	7.381
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59-0045	83.33	
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		3.05 luM	-1.39
		953.871nM	-10.11
		298.02 InM	4.49
	i	93.13InM	-7.28
		29.10 nM	-12.341
		9.09 InM	1 -3.081
		2.84 nM	-2.26
		888.18 pM	-5.341
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59-0048	384.50		1 1
59-0048	554.55	100.001uM	-6.73
		31.25luM	0.27
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		3.05 uM	-2.26
		953.67 nM	-12.89
		298.02 nM	-1.69
		93.13InM	4.77
		29.10InM	-8.14
		9.09 nM	-3.92
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		3.05luM	1,961
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		298.02 mM	-5.04
		93.13InM	-2.24
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		9.09 nM	4,49
	<del></del>	2.84 inM	2.24
		898.18 pM	-0.3

59-0050	303.36			
59-0050		0.001uM	45.79	
		31.25 uM		_
		9.771uM		_
		3.05luM		
		3.87InM	6.92	_
		8.02InM	-5.85	_
		3.13 nM	1.69	_
		9.10 nM	-7.57	_
		9.09inM	-12.05	
		2.84 inM		
	, 88	8.18 pM	5.2	_
59-0051	251.35	_		
59-0051		0.00luM I	32.35	_
		1.25luM +	-18.42i	_
		9.77 luM	-0.551 .	-
		3.05!uM	-13.94:	_
		3.67 nM	-12.02	_
		8.02 InM ;	-14.59i	_
		3.13/nM ;	-7 55:	_
		9.10 nM	-11.4	-
		9.09!nM ;	-14 91; -10 74;	$\dashv$

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59-0052	393.28	1	1 1
59-0052		100.00 uM	-21.62:
		31.25 uM	-13.32:
		9.77 uM	-21,311
	<del></del>	3.051vM	
		953.67 inM	
			-20.66
		298.021nM	-17,14/
		93.13 InM	-16.491
		29.10 nM	-11.41
		9.09 inM	-10.74:
		2.84 nM	-11.08'
		688.181pM	i -14.59
59-0053	354.41		1 1 1
59-0053		100.00	
		100.00:uM	-17 14
		31.25 uM	-21 31
		9.77!uM	-9 47
		3.05:uM	-11 06:
		953.67 InM	-0.83:
		298.02 InM	-1141
	1	93.13 inM	-9 47
		29.10InM	-19.72
		9.09 InM	
			-18.45;
		2.84:nM	
		888.18 pM	-2.76

NH NH			
N N			1 1
59-0054	236.28		!
59-0054	236.28		20.04
		31.25 uM	-20.04
		9.77 luM	8.3
-			-3.371
			-2.41
i i			-0.99
			-0.99
		9.09InM	5.921
			-2.17!
		888.18 pM	-9.31
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59-0055	425.51		
59-0055	443.011	100.00 µM	-13.78
		31.25luM	-9.51
		9.77 uM	-2.02
		3.05 uM	3.24
		953.67 nM	-6.27
		298.02 nM	4.05
		93.13inM 29.10inM	-1.62
		9 09 inM	-7 49 -7 09:
	- 1	2.84InM	-3.04
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59-0056	512.34	i	
59-0056 :		100.001uM	-1 42
	- 1	31.25luM	4.87
<u>-</u>		9.77 uM	0.18
		3.05 UM	3.84
	 ÷	953.671nM 298.02!nM	-5.07 -7.29
		93.13 InM	9.001
		29.10 InM	4.25
		9.091nM	-1.02
	- 1	2.84 nM	-3.851

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59-0057	i	;
59-0057	100.00/uM	
	31.25 juM	-24.150
	1 9.77!uM	-24.300
		-5.980
	3.03.0M	-11.500
	953.67 InM	-13.000
	298.02 nM	-6.2801
	93.13 nM	-12.550
	29.10InM	-6.870.
	9.091nM	-8.5201
	2.841nM	
	2.0-7.00	-16.290:
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59-0058	1 1	1
59-0058		
	100.00 uM	4.170;
	0120100	! 7.620!
	9.77 luM	·1.790!
	3.05 luM	· -7.320i
	953.67 nM	-1.9401
i	298.02:nM	-6.670:
	93.13 nM	-1.490
	29.10 nM	-8.3701
	9.09 nM	
		-5.0801
	2.84 InM	-12 400:
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9-0059		•
9-0059	100.00 iuM	-18.770:
	31.251uM	
	9.77:uM	-16 1401
		-3.090!
	0.00.0m	0 150
	933,07:NM	5.010
	298.02:nM	-1.910
	93.13'nM	-1.760
	1 29.10 nM	9.100
	9 091nM	8.220
	2 84 mM	-5.720!
	2 04 HM	-5 / 20!

N-N S-N-N	*	
59-0060	1 100.001uM	4.2501
	31.25 uM	1 -14.5201
	9.77 UM	1.030
	1 3.05 uM	-1.180
	953.67 InM	-13.200
	298.021nM	-0.740
1	93.13 nM	-3.6701
	29.10inM	-7.340
<u> </u>	9.09 nM	-1.310
	2.84 nM	0.2901
S _N ,N		
59-0061	1 1	
59-0061	100.00 uM	1 -17.8901
	31.25 uM	-18.770
	9.77 uM	-17.170
	3.05 vM	-14.080
	953.67 InM	-17.020
	298.021nM	-7.190)
	93.13 nM	1.910
1	29.10inM	i -0 4401
	9.09 nM	i -6.010i
	2.84 InM	4 5601
NH N N N N N N N N N N N N N N N N N N		
59-0062		1 4000
35-000	i 100.00iuM i 31.25iuM	-13.940
	9.77 uM	4.560
	3.05 uM	4.540
	953.67 InM	-8.900
·	298.02 nM	4 100
,	93.13 nM	-1 6201
	29.10InM	3.230

	9.09inM	8.070
	2.84 inM	0.440.
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59-0063 59-0063		<u>i</u>
	100.001uM	-2.510
	31.25 uM	-6.1301
	9.771uM	-8.950
	3.051uM	-8.020
	953.67 inM	-8.010
	298.021nM	-2.5201
	93.13InM	-5.810
<u>-</u>	29.10 nM	-3.450
	9.09 nM	1 -4.3901
	2.84 nM	-6.2801
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9-0064		
9-0064	100.00 um	23,0901
	31.25iuM	
	9.77 LUM	-21.0401
		70.4001
	0.001000	155.220
	953.67 inM	113.120:
		30.640:
	93.13InM	15.2401
	29.10jnM	22.150:
	9.09InM	-0.770!
	2.84 InM	4.4101
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-0065	I 100.00 uM	-2.0301
	31.251uM	-2.980
	9.771uM	-15.240
	1 3.05 uM	-15.400i
	953.671nM	-15.240
	298.02 inM	-10.520
	: 93.13InM	-13.830
	: 29.10 InM	-5.810
1	9.09InM	-3.620
	2.84 inM	-7 070

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59-0066	1	
59-0066	100.00	<u> </u>
j	100.0010M	10.0601
	31.25 uM	2.680
	7.17 (UM	10.850
	3.05igM 953.67jnM	14.610
	298.02 InM	0.950
	93.13 nM	3.7601
	29.10 nM	1.730
	9.09 nM	-2.020.
	2.84 nM	-2.820:
	1 20-1111	-3.9201
59-0067		
59-0067	100.00 uM	-24.0401
	31.25 uM	-24.8901
	9.77 luM	-1.450
	3.05 uM	60.9001
	953.67 InM	133.8601
	298.02 nM	75.330
	93.13 inM	1 28.7601
	29.10 inM	20.070!
	9.091nM	4 980i
	2.841nM	4 450!
9-0068	1	! !
9-0068	1 100.001uM	-22.130
	31.25 uM	-7.880
	9.77 uM	93.900
	3.05/uM	81.060:
	953.67 inM	22.330
	298.02 InM	17.300
	93.131nM	8.460
	29.10!nM	-3.530
:	9.09 nM	1 4 2301
	9.09InM 2.84InM	-4.230

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59-0069	i l	
59-0069	1 100.00 uM	5.490
	31.25 uM	9.6701
	9.77 uM	18,0901
	1 3.05 uM	-7.180
	i 953.67(nM	-2.8401
	298.02 nM	-3.710
	93.13 nM	-11.160
	29.10 nM	-5.7901
	9.09 nM	-7.180
	2.84 nM	4.7501
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59-0070 59-0070		
	100.00 uM	-25.9301
	31.25 uM	-23.000;
	9.77 uM	36,060
	3.05 uM	214,280
	953.67 nM	158.530
	296.02 nM	72.8901
	93.13 nM	20.5-01
	29.10InM	7.7601
	9.09 nM	7.5901
	2.84 nM	-8.400:
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9-0071	iiノ	1
9-0071	i 100.00 uM	-16.650:
	31.25 iuM	-15,540
	9.77 uM	17.060
i	3.05 uM	178.090
	953.67 InM	76.070i
	298.02!nM	i 31.280
	93.13 nM	16.410
	29.10 nM	4.870
	Mn 9.09	.7.3301
	2.84 inM	4.6601

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59-0072		!
59-0072	100.001uM	-19.750;
	31.25juM	-18.6501
	9.771uM	-18.430
	G.0010M	-15.770;
	933.01 mm	9.970
	298.02 nM	74.740
	93.13 nM	175.430
	29.10 nM	213.580
· · · · · · · · · · · · · · · · · · ·	9.09 nM	164.320
	2.84 nM	119.100
	888.18 pM	60.7701
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59-0073	1 1	
59-0073	100.001uM	-3.010
	31.25 uM	4.830
	9.77 uM	-9.660
	953.67InM	4.6801
	298.02 nM	-6.500i -2.510i
	93.131nM	7.140
	29.101nM	0.97
	9.091nM	-5.5
	2 84 InM	5.3
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59-0074		!
59-0074	100.00 iuM	-2.85.
	31.25/uM	2.141
	9.771uM	4.85
	3.05 uM	-3.51
	953.67!nM	4.85
	298.02 inM 93.13 inM	9.95
	29.101nM	4.471
	9.091nM	-61
	2.84 nM	6.97

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59-0075		1 1
59-0075	100.00luM	: -0.681
	31.25 luM	-10.16
	9.77 JuM	-5.35
	3.05 uM	-6.5
	953.67 InM	-0.85
	298.02 nM	5.97
	93.13 nM	0.971
	29.10inM	-2.351
	9.09 nM	0.32!
	i 2.84 nM	10.471
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59-0076	1 1	1 1
59-0076	100.001uM	-19.12!
	31.25juM	9.29
	9.77 uM	1 10.631
	1 3.05 uM	22.431
	953.67 InM	1 19.931
	298.02 nM	3.47
i	93.13InM	! 19.93
	29.10InM	10.631
	9.09InM	14.281
	2.84InM	11.3
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59-0077	! 1	1 1
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	100.00 luM	-20.961
	31.25!uM	1 -16.23!
	9.77luM	-10.58!
	3.05/uM	-11.961
	953.67InM	: -19.441
	298.02InM	-17.3
	i 93.13InM	-13.79
	93.13 nM 1 29.10 nM	i -13.79) i -15.62
	i 93.13InM	-13.79

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59-0078		
	100.00iuM	-26.540
	31.25 uM 9.77 uM	: -22.560!
	3.05luM	1 71.5301
	953.67 inM	379.230
	298.02 nM	241,460
	93.13 nM 29.10 nM	136.1001
	9.09inM	50.350
	2.84 nM	56.600
	0.80 nM	92.520
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59-0079	1 1	
59-0079		
	100.00 uM 31.25 uM	1 +34.980
	9.77 uM	1 -21.390
	3.05 uM	1 122.5801
	953.67 nM	69.0101
	298.02 nM 93.13 nM	64.0001
	29.10InM	46.4901
	9.09InM	33.4901
	2.84 inM	29.7601
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59-0080	1	
59-0080	100.00 luM	5 3901
	31.251uM i 9.771uM	5.5601
	3.051uM	5 440
	953.67InM	-5.0301
	298.021nM	· 7 660¹
	*******	-3.630
		3.650
		6.940
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59-00A	' 1	: ' !

59-0081		
39-5081	100.00 iuM	'82.840''
	31.25 uM	11.300:
	9 77 uM 3 05 uM	-8.8701
	953.87InM	-5.200
	298.02InM	-2.080
	93.13InM	1.220
	29.10InM	-2.2501
	9.09 nM	1.050
	. 2.84 nM	-3.300
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59-0082 ! 59-0082 !		
	100.00 uM	111.79:
	31.25 uM	62.68
	9.77 uM	32.361
	1 3.051uM	9.11/
	953.67 InM 298.02 InM	-10.621
		71.001
	93.13 nM 29.10 nM	-6.89)
	9.09 nM	2.22
	2.84 nM	18.36;
	2.04	10.301
N N		
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9-0083		
9-0083	100.00 uM	48.931
	1 31.25 uM	40.91
	9.77 uM	25.85!
	3.051uM	17.85
	953.67InM	8.551
	298.02 nM	3.91
	93.13 nM 29.10 nM	7.99
	9.09 InM	7.99
	2.84 nM	3.351
	2.0-11.00	3.33
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9-0084		
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	100.00 uM 31.25 uM	37.670
	9 77 luM	26.050: 9.2101
	3.05luM	1 9.2101
	3.031UM	10.070

	953.671nM	21.700
	298.02InM	5.9001
	93.13InM	4.8701
	: 29.10inM	-10.920
	9.091nM	10.080
	2.84 nM	-2.0801
59-0085		
	1 100.001uM	17.070
	31.25 uM	41.890
	9.771UM	18.500)
	3.05 iuM 953.67 inM	20.340
	298.021nM	22.490
	93.13 InM	11,790
	29.10 InM	1.240
	9.09 nM	-0.7601
	2.84 InM	5.9401
19-0066		
9-0086		
	100.00 uM	30.750
	31.25luM	31.1901
	9.77(uM 3.05(uM	1 14.790
	953.87 inM	13.500
	298.02 InM	3.940
	93.13InM	9.370
	29.10InM	-2.610;
	9.09InM	-5.040i
	2.84InM	1.5301
P-0087		
9-0087	1 100.001uM	10.660
	31.25luM	11.080
	9.77 luM	3.100
	3.05luM	-1.320
	953.67InM	17.070
	298.021nM	7.950
	93.13 nM	-4.460
	9.09InM	4.5101
		~0.470

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59-0088	!	1 1
59-0088	100.00 uM	<del></del>
	31.25luM	<del></del>
	9.77 juM	
	3.05luM	1
	953.67InM	1
	298.021nM	
<u>i</u>	93.13InM	
	29.10InM	
	9.09 nM	
	2.84 nM	
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59-0089		1 1
59-0089	100.00 luM	60.09
	31.25 uM	1 116.251
	9.77 luM	65.841
	3.05 uM	36.11
	953.67 inM	37.96
	298.02 inM	18.42
	93.13 nM	6.331
	29.10 nM	13.58)
	9.09inM	0.75
	2.84 nM	-5.77
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59-0090	1 1	
9-0090	100.00 iuM	
	31.25 UM	32.771
	9.77iuM	24 631
	3.05iuM	10.51
	953.67 inM	9.8
	298.02 inM	-1,76
	93.13 inM	3.53
	29.10InM	2.95
	9.09 InM	2.95
	2.84 InM	7.81
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9-0091	1	1 1 1
9-0091	100.001uM	0.26
		13.54

	9.77/uM I 3.05/uM	95.94
	953.67 nM	87 71
	298.02 InM	38,26
	93.13 nM	23.87
	29.10(nM	21.851
	9.09InM	1 10.95!
	1 2.84 inM	20.92
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59-0092 59-0092		
59-0092	1 100.00 uM	-11.58
	31.25 luM 9.77 luM	17.84
	3.05 uM	50.19
	953.87 inM	25.84
	298.02 InM	6.77
	93.13 nM	8.621
	1 29.10/nM	2.22
	9.09InM	8.381
	2.84 nM	11
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59-0093		
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59-0093	100.00 uM	i -11.67!
	31.25 uM 9.77 uM	15.02
	3.05 uM	29.89
	953.67inM	22.881
	298.02 inM	19.56
	93.13InM	5 18
	29.10InM	7.39
<del></del>	9.09 mM	4.561
	2.84 InM	5.9!
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59-0094		1
59-0094	1 100.001µM	-17.69
	31.251uM	45.15
		24.97
		19.81
	953.67 nM	9.35
		1.36
		9.241
		6.161
	2.84 nM	1 611



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59-0095	i 1 1	i
59-0095	100.001uM	
	31.25 uM	44.7
	9.77 uM	47.01
	1 3.05 uM	12.78
	953.87 inM	15.01
	298.02 InM	1 10.22
	93.13 nM	13.98
	29.10 nM	20.31
	9.09 nM	10.9
	2.84 nM	9.21
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59-0096		1 1
59-0096	100.00 uM	413.05
	31.25 uM	287.23
	i. 9.77 uM	137.38
	3.05 uM	78.5
	953.67 nM	49.13
	298.02 nM	50.68
	93.13InM	47.95
	29.10InM :	26.28
	9.09InM I	18.75
	2.84 InM	22.17
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59-0097		
59-0097	: 100.00 uM	77.47
	31.25 uM	201.9
	9.77 uM :	160.93
	3.05luM	81.44
	I 953.67inM	47.78
	298.02inM	51.54
	93.13InM	34 64
	1 29.10InM	43.18
	9.09!nM	- · 39.91
	2.84 inM I	27 13

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59-0098 59-0098		
59-0096	100.00 uM	-1.38
	31.25 uM	186.89
	9.77 juM 3.05 juM	221.7
	953.67 nM	164.69
	298.021nM	68.25
	93.13InM	57
	i 29.10inM	51.88
	9.09 nM	41.29
	2.84 nM	33.43
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9-0099	- 1	1 1
9-0099	100.001uM	13.040
	31.25 uM	56.880:
	9.77luM	119,340
	3.05 uM	237,420;
	953.67 nM	: 285.4401
	298.02 nM	164.610
	93.13 nM	123.3001
	29.10 nM 9.09 nM	69.2401
	2.84InM	44.5001
	2.0-11.0-	47.390
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9-0100 9-0100		<u>i                                      </u>
9-0100	100.00 uM	-10.0201
	31.25 uM	-10.730:
	9.77 uM 3.05 uM	30.3401
	953.67 InM	77.5401
	298.02 nM	40.290!
	93.13 inM	35.7301
	I 29.10 nM	28.290
	9.09 nM	17.480!
	2.64 nM	11.470:
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9-0101		
en mi	100.001uM	26.370

I		93.13 nM	: 213.89
		298.02 nM	196.42i
		953.67 InM	24.37
		3.05 uM	-27.05
	-	9.77 Jum	-29.2
	<del></del>	31.25 UM	-29.84
	297.31	100.00 uM	
9-0104		- 1	
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		V.00/11M	116 331
		0.80 nM	203.41
		9.09 inM 2.84 inM	210.39
		29.10inM	222.87
		93.13 nM	170.95
		298.02 inM	1 54.151
		953.67 InM	1 -5.581
		3.05 uM	-27.72
		9.77 uM	-28.22!
		31.25 uM	-29.53
		100.00 uM	-29.69
9-0103	313.38		1 1
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		888.18 pM	42.3301
		9.09 nM 2.84 nM	27.2601
		29.10InM	45.6901
		93.13InM	66.2901
		298.02 nM	72.4601
		953.67 InM	121.320 79.530
		9.77 uM 3.05 uM	63.540
		31.25 UM	+11.140
59-0102		100.00iuM	-24.3501
59-0102	284.34		
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		2.84 nM	5.5901
	1	9.09 nM	4.150
	-	29.10 nM	1.1401
	<del>                                     </del>	298.02InM 93.13InM	7.8601
		953.67 nM	2.1101
		3.05 JuM	1 10.280:
	1	31.25 uM 9.77 iuM	12.440

120.04	29.10InM-12"		
245.421	9.09 nM		
182.45:	2.84 nM		
119.551	0.80 inM		
			ما المال
		267.29	59-0105
-25.72	100.00 uM		
-15.89	31.25 uM		
31.7	9.77 uM		
54.17	3.05 uM		
53.67	953.67 nM		
41.35	298.02 nM		
44.5	93.13 nM		
39.02	29.10 nM 9.09 nM		
25.38			
31.7	2.84 nM 0.80 nM		
18.05	U.SUITIM		
		297.31	59-0106
-14.05	100.00 uM		
223.52	31.25 uM		···
202.581	9.77 uM		
107.73	3.05 uM		
71.3	953.67 InM 298.02 InM		
44.84			
25.541			
27.87		1	
12.23		<del>-   -  </del>	
11.4	0.80inM		
i		332.38	9-0107
48.55	100.00 uM		
22.87	31.25 uM		
7.19	9.77 uM		
0.65	3 05 uM		
_11.12	953.67InM		
-3.92	298.02 inM		
1.09			
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	<u> </u>	9.0	91nM:+ 8 " "	7 1 1 1 1 1 1 32 3 7	1.1
		2.6	M nM	-2.621	
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59-0108	316.31				
	<del></del>	100.00		227.73	
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	+		7 UM	58.57	
			5 uM	37.23	_
		953.61		18.94	_
	<del> </del>	298.02		25.68	
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	† — —		nM	2.62	_
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9-0109	316.31				
		100.00		43.12	
		31.25		27.641	
		9.77		5.89	_
		3.05		6.32	
		953.67		13.51	_
		298.02		7.85	_
		93.13		3.71	
		29.10		-3.27	_
		9.09		5.01	_
		2.84		-4.58	_
		0.80	InM	8.98	_
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9-0110	288.29			1 1	
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		31.25		67.05	-
		9.77		-35.27	$\dashv$
		3.05		25.26	٦
		953.67		27.011	-
		298.02		15.24	-

		93.131nMO E	-
			1 100
		29.10inM	5.891
		9.09 nM	1 5 45
		2.84 nM	10.241
		0.80 nM	4.14
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59-0111	152.15		
		100.001uM	23.380
		31.25 uM	22.330
		9.77 uM	12.260
		3.05 uM	5.390
		953.67 inM 298.02 inM	2.190
*		93.13 nM	1.230
		29.10 nM	8.350
		9.09 nM	4.350
		2.84 nM	4.350
		0.80inM	3.2301
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59-0112	149.19		
		100.00 uM	2.570
		31.25 uM	4.670
		9.77 uM 3.05 uM	2.750 3.790
		953.67 InM	4.270
		298.02 nM	1,150
		93.13InM	9.630
		29.10inM	0.920
		9.09InM	0.510
		2.84 InM	12.900
		0.80InM	2.990
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59-0113		ı	
78-7113	274.37		
	<del></del>	100.00!uM 31.25iuM	22.010
		9.77 uM	i 7.500
		3.05 uM	3.070
		953.67 nM	-0.760
		298.02 nM	-4.690
		93.13InM	4.790
		29.10 InM	5.090
		9.09 nM	0.150
		2.84 InM	-0.250
	!	0.80InM	0.150

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59-0114	475.54		
	175.5	100.00 UM	52,030
		31.25 uM	36.1201
		9.77 UM	25.8401
	+	3.05 uM 953.67 InM	16.6701
	<b>†</b>	298.02 InM	9.420
		93.13 nM	-1.060
	-	29.10 nM	2.160
		9.09 mM 2.84 mM	-8.000)
		0.80 nM	2.470
			-1.400
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59-0115	318.87	- 1	
		100.00 uM	73.700
		31.25 uM	2.770
	-	9.77 uM	-10.4301
	<del>                                     </del>	3.05 uM 953.67 nM	-12.340i -13.750i
		298.02 nM	-13.950)
		93.13 nM	-11.940
		29.10 nM	-9.8301
i		9.09 nM 2.84 nM	-8.8201
		0.80InM	-0.9501 -0.0501
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59-0116	269.30		
		100.00 uM	31,360
	<del> </del>	31.25 uM 9.77 uM	109.0601
	<del>                                     </del>	3.05 uM	240.670
		953.67 InM	132.020
		298.02 InM	75.820
	<del>  </del>	93.13 nM 29.10 nM	53.250
	<del>                                     </del>	29.101nM 9.091nM	47.500l 39.440
		2.84 nM	42.170
		0.80 nM	31.180
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59-0117			
30-0111	268.38		
		100.001uM	-68.520

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	<del></del> -	31 25 uM-	J-1597.450th / Jan 5
		9.77 uM	111.6301
	+	3.05 uM	64.3401
		953.67 nM	4.740
		298.02 InM	-19.270
		93.13 nM	-26.660
	+	29.10 nM	-28.880
		9.09 nM	-42.180
		2.84 nM 0.80 nM	-41.300
		U.BUINM	-39.220
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59-0118	313.38		
	313.38	100.00 µM	<del> </del>
	<del> </del>	31.25 uM	-67.170
	<del> </del>	9.77 uM	-56.580
	†	3.05 uM	-58.0601
	<del> </del>	953.87 nM	-55.720  -48.200
		298.021nM	-50,300
		93.13 nM	-33.310
		29.10 nM	47.340
		9.09 nM	49.310
		2.84 nM	-56.200
		0.80 nM	-57.310
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59-0119	314.34		1 1 1
	314.34	100.00 µM	187 500
		31.25 uM	187.500
	-	9.77 uM	-29.2401
		3.05 luM	-52.030
		953.87 inM	-54.240
		298.02 nM	-53.870
		93.13 nM	-38.110
		29.10 nM	-55.100
		9.091nM	1 -52.270
		2.84 InM	-53.500
		0.80inM	43.650
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59-0120	504.49		
		100.00 uM	-82.790
		31.25 uM	-80.470
		9.77 uM	-66.600
		3.05 uM	-80.790
		953.67/nM	-54.240
		298.02 nM	-45.250
		93.13 nM	-50.660

	Ť:	29.10InM	
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			-50.3001
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59-0121	245.29	ŀ	i i
	243.23	100.00 uM	-70 6001
		31.25 uM	-79.6901 -75.5901
	1	9.77 uM	25.850
	i	3.05 uM	94.8501
		953.67 InM	43.910
	1	298.02 InM	-1.800
		93.13 nM	4.150
		29.10 nM	-22.050
		9.09 nM	-31.110
		2.84 nM	-28.7601
		0.80 inM	1 -28.2701
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59-0122	333.39		
	333.33	100.00 uM	-19.050
		31.25 uM	-12.080
		9.77 JuM	-7.610
		3.05 luM	25.2101
	1	953.67 inM	83.5801
		298.02 inM	87.2201
		93.13 InM	83.8901
		29.10 InM	42.680
		9.091nM	45.3201
		2.84 inM	! 37.780
		0.80inM	27.0301
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`n-4 `\			
59-0123	347.42		
59-0123	347.42	100.00 uM	34.430
59-0123		100.00 uM 31.25 uM	34.430 34.710
55-0123			
		31.25 uM	34.710
		31.25 uM 9.77 uM	34.710 38.620
		31.25 uM 9.77 uM 3.05 uM 953.87 nM 298.02 nM	34.710 38.620 55.100 51.900 41.410
		31.25 uM 9.77 uM 3.05 uM 953.67 nM	34.710 38.620 55.100 51.900
		31.25 uM 9.77 uM 3.05 uM 953.67 nM 298.02 nM 93.13 nM 29.10 nM	34.710 38.620 55.100 51.900 41.410
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		31.25 uM 9.77 uM 3.05 uM 953.67 nM 298.02 nM 93.13 nM 29.10 nM	34.710 38.820 55.100 51.900 41.410 29.970

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59-0124	350.44	1	
	· ·	100.001uM	1 56.6401
		31.25 JuM	81,500:
		9.77 uM	1 145.8801
		3.05 uM	135.830
		953.67 nM	268.9901
	+	298.02 nM	224.290
		93.13 nM 29.10 nM	134.850
	<del></del>	29.10InM 9.09InM	91.690
	<del></del>	2.84 nM	80.390
· · · · · · · · · · · · · · · · · · ·		2.84 I NA 0.80 I NA	63.060
		U.00 INM	51.480
المرابع			
HO	372.45		
		100.00 uM 31.25 uM	-6.7501
	<del></del>	9.77 Jum	67.5301
		3.05luM	54.1201
	<del></del>	953.67 InM	21.580
	<del></del>	298.02 nM	22,250
	<del></del>	93.13 InM	22.700
	<del></del>	29.10InM	1.6301
		9.09 nM	15,700
		2.84 InM	9.8401

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59-0126	260.30		1	1	
		1 100.0	OluM	-17.39	
			5luM	-17.39	
		9.7	7 uM	9.27	
			SluM	40.53	0
				21.39	
			3InM	9.43	
			0 nM	6.36	
		9.0	9 nM	8.510	
		2.8	4inM	0.08	1
		0.8	DinM	3.75	i i
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59-0127	329.41				
		100.00		-20.610	
		31.25		-21.820	
		9.77		-6.060 i -3.900	
		953.67		-8.820	
		298.02		-6.200	
		93.13		11.880	
		29.10		1.810	
		9.09		3.600	
	+	2.84		-2.070 4.220	
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59-0128	435.34				ļ
		100.00			
		31.25			
	<del></del>	9.77 3.05		-	
		953.67			
		298.02		-	
		93.13		-	
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59-0129	277,71			
	,	100.00 µM	-20.48	
	1	31.25 uM	-21.21	
		9.77 uM	44.38	
		3.05 uM	4.38	
		953.87 nM	5.9	
		298.02InM	3.8	
		93.13 nM	2.071	
		29.10 nM	4.22	
		9.09 nM	-0.681	
		2.84 nM	12.48	
		0.80 nM	-0.53	
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59-0130	287.34		1 1	
		100.00 luM	4.38	<del></del>
		31.25 uM	8.35	
		9.77 uM	5.91	
		3.05 uM	4.98	
		953.67 InM	0.391	
		298.02 InM	8.661	
		93.13 InM	2.851	
		29.10 nM	3.61	
		9.09InM	4.361	
		2.84 InM	1 8.961	
		0.80 nM	24.75	
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59-0131	331.22			1
		100.00 luM	8.75	
		31.25 uM	0.12	
		9.77 JuM	-10.38	
		3.05 uM	-6.39	
	- 1	953.67 InM	-2.81	
		298.02 InM	1.61	1
		93.13 InM	-1.98T	
		29.10 InM	-2.591	
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9-0133  327.34  100.00 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM		1 1 1	1 1	ļ.
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9-0133  327.34  100.00 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM  -1.0 tuM	• •	1 1 1		1
100,00 iuM	59-0132	313.32		
31.25 inM			-17.1	
9-77-LAM				
3.05   Mail   12.92     9.93.87   Mail   13.54     9.93.87   Mail   13.54     208.02   Mail   10.38     9.31.31   Mail   10.38     9.01   Mail   10.38     9.01   Mail   10.38     9.01   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.38     0.05   Mail   10.				
9-0133 100001WH .1604 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1871 .1				
280.02 in M		953.87 inM		
9-0131   327.34   3-05.5   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00   3-00.00		298.02 inM		
28.10   10.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00				
327.34		29.10 nM		
9-0133 32734 100.001uM .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04 .16,04				
327.34  327.34  31.25 luk .16.91  9.77 luk .17.31  9.77 luk .17.31  9.78 luk .16.91  9.77 luk .17.31  9.78 luk .16.91  9.78 luk .17.31  9.78 luk .17.31  9.78 luk .17.31  9.78 luk .17.31  9.78 luk .17.31  9.78 luk .17.31  9.80 luk .17.31  9.80 luk .17.31  9.80 luk .17.31  9.80 luk .17.31  9.80 luk .17.31			-9.97	
100.00   140.00   16.04   16.04   17.74   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10		0.50 nM	-2.81	
100.00   140.00   16.04   16.04   17.74   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10		1 1 1		
100.00   140.00   16.04   16.04   17.74   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10		1 1 1		i
100.00   140.00   16.04   16.04   17.74   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10	\/	1 1 1		
100.00   140.00   16.04   16.04   17.74   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10	$\sim$			
100.00   140.00   16.04   16.04   17.74   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10	N N	1 1 1		i i
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100.00 july 16.04   16.04   18.04   18.04   18.04   18.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19	0 N N 0	1 1 1		
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100.00 july 16.04   16.04   18.04   18.04   18.04   18.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19.04   19	$\downarrow$			i
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31.25 tuN   -16.91				
9.77 tulk 1.77 31 3.05 tulk 1.97 31 3.05 tulk 1.97 31 9.93 27 tulk 9.94 4 288.02 tulk 1.92 9 9.33 31 tulk 1.12 29 9.33 31 tulk 1.17 24 9.00 tulk 1.77 4 9.00 tulk 4.77 1				
3.05 stat -18.7   9.53 87 (nm   -9.34   -9.34   -9.34   -9.34   -9.34   -9.34   -9.34   -9.34   -9.34   -9.34   -9.34   -9.34   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35   -9.35				
953.67/nk 9-34  298.02/nk 1-1289  93.13/nk -11.29  93.13/nk -11.23  28.10/nk -17/r4  9.00/nk 6.02  2.44/nk 4.77				
288 02 rNA - 12 89 9 93.13 rNA - 12 12 9 9 93.13 rNA - 11.23 9 93.13 rNA - 11.23 9 93.13 rNA - 11.23 9 93.13 rNA - 11.23 93.13 rNA - 11.23 93.13 rNA - 11.23 93.13 rNA - 11.23 93.13 rNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA - 11.23 PNA -				
93.13 pM - 11.23   28.10 pm - 17.74   8.00 pm - 6.02   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.40 pm - 4.77   2.				
28.10inM -17.74		93.13 nM		
9.09inM 6.02 2.84inM -4.71		29.10InM		
2.84inM 4.71		9.09inM		
		( 2.04 INM		
		0.60 nM		

39-0134  357-37  39-0134  31-25 lask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.771 jask  9.77					
59-0134  357-37  100.00 tuM  31.25 tuM  9.57 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.54 tuM  9.54 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 t		<del></del>			
59-0134  357-37  100.00 tuM  31.25 tuM  9.57 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.54 tuM  9.54 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 t		1 .			1- 1
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59-0134  357-37  100.00 tuM  31.25 tuM  9.57 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.54 tuM  9.54 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 t	" ~ N=		- 1	1 3	i
59-0134  357-37  100.00 tuM  31.25 tuM  9.57 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.53 tuM  9.54 tuM  9.54 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 tuM  9.55 t		1 1	1 .	- I i	i
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9.771uA 19.85    1.051uW 4.990    953.671mA 44.71    298.021mA 27.12    93.131mA 22.36    2.010mA 18.6    8.001mA 26.71						
3.05 uk   43.90    953.67 nk   44.73    296.02 nk   37.12    53.13 nk   24.36    28.10 nk   16.6    0.09 nk   26.71						
298.02 (rink 37.72) 93.3 (rink 22.36) 20.10 (rink 16.6) 0.00 (rink 26.71) 1.24 (rink 15.00)			3.05	uM I		
93.316M 22.361 93.316M 22.361 28.1016M 18.61 9.0016M 26.71 2.2446M 15.001						
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9.09inM   25.7i						
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59-0142 379.29	59-0142	379,29		[	- 1	1
100.00 JuM 9,43			100.001	ıM i	9.43	
31.25 uM 33.72			31.25	M.		
9.77 uM 47.33			9.771	M		
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298.02 nM 29.94 93.13 nM 22.11			3.05 c	Mr.	40.19 36.53	

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	T	9.09inM	_0.9:	41.5
		2.84 nM	19.141	
	1	0.80 nM	17 12	
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59-0143	447.29			
	447.29	100.00 JuM		
	i		0.4	
	1		34.391 42.211	
	i	3.05 uM	50.57	
		953.67 (nM	36.94	
			27.23	
			16.991	<del></del>
		29.10 nM	19.27	+
		9.09 nM	14.421	-i
		2.84 nM	11.33	
		0.80 nM	23.72	
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59-0144	316.40	_	1 1	
	<u> </u>	100.00 uM	-14.591	<del></del>
	T	31.25 luM	4.441	-
		9.77 uM	47.11	
		3.05 UM	53.891	
		953.87 nM	43.11	
		298.02 nM	29 21	
		93.13InM	18.51	
		29.101nM	12.9	
		9.09 nM	5.541	
		2.84 nM 0.80 nM	3.71	
	<del></del>	V.OVINM	5.87	
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9-0145	350.27			į
		100.00 JuM	435.91	-
		31.25 JuM	422.15	
		9.77 luM	446.931	1
		3.05 uM	434.17	
		953.67 InM	238.34-	
		298.021nM	45.991	1
		93.13 InM 29.10 InM	9.221	
		9.091nM	7.711	

		2.841	rM.	1 6,271	
		0.80		3.55	
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59-0146	248.27			l i	ł
		100.001	uM	-63.051	<del></del>
		31.25		4.42	
		9.77	uM	-13.73	
		3.05		-18.451	
		953.67		-35.47	
		298.021		-51.25	
		93.13		-50.13	
		29.10		42.92	
		9.09		45.64	
		2.841		-58.581	
		0.80	nM	-39.68)	
59-0147	314.36	1		1 1	1
		100.00	uΜ	-85	
		31.25		-85	
		9.77	uM	-80.29	
		3.051	uM.	-41.67	
		953.67		78.691	
		298.021		269.13	. 1
		93.13		323.59	
		29.101		339.88	
		9.09		270.48	
		2.841		245.58	
		0.801	M	180.331	
59-0148	291.35	i			<u>!</u>
		100.001		-66.38	
		31.251		-36.33	
		9.771		-2.3	
		3.051s 953.671s		12.12	
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		93.13		-10.21	
		29.101		-30.87	<del></del>
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	<del>-</del>	2.841		41.18	
		0.801		45.53	

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59-0149	329.33	1	1 1	1
	328.331	100.00 IuM		
		31.25 JuM	-18.9 -1.8	
		9.77 JuM	-0.53	
		3.05 uM	15.29	<del></del>
		953.67 nM	78.78	
		298.02 nM	163.5	
		93.13 nM	223.67	
		29.10 nM	173.93	
		9.09 nM	122.3	
		2.84 nM	98.02	
		0.80InM	89.06	
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59-0150	304.39		1 1	
	304.30	100.00 juM	83.32	
		31.25 uM	193.53	
		9.77 VM	419.26	
		3.05 JuM	497.21	
		953.67 InM	295.19	<del></del>
		298.021nM	193,35	
		93.131nM	99.481	1
		29.10 nM	1 '69.961	
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	1	2.84 inM	52.16	
		0.801nM	48.751	:
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9-0151		1		1
9-0151	278.311			1
		100.001uM	-6.660)	
		31.25 luM	16.240	
		9.77 luM	16.300	
		3.05 uM 953.67 inM	11.690	
		298.02 nM	9.070	
		93.13 nM	6.110	+
		29.10 nM	5.880	
		9.09 nM	7.700	<del></del>
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		D 80InM	1,210	
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59-0152	266.275			
59-0152		100.00 uM	-8.890	
	1	31.25 UM	12.490	<del></del>
		9.77 uM	21,950	
		3.05 uM	12,820	-
		953.57 nM	7,350	
		298.02 nM	4.290	
		93.13 nM	9.750	
		29.10 nM	4.860	
		9.09 nM	1.320	
	<b> </b>	2.84 nM	4.280	
	!	0.801nM	4.180	
59-0153	282.73			-
9-0153		100.00 uM	-4.150)	
		31.25 uM	-0.390	
		9.77 uM	11.120)	
		3.05 uM	14.540	
		953.67 nM	9.520	
		298.02 nM	11.5701	
		93.13 nM	-0.160	
		29.10 nM	1 1.550)	
		9.09 nM	-0.9601	
		2.84 nM	4.730	
		0.80 nM	5.650	
9-0154	262.312		1 1	!
9-0154		100.00 uM	0.2901	
		31.25 uM	24.6701	
		9.77 UM	1 15.5801	1
		3.05 uM	14.540)	
		953.67 InM	13.170	
		298.02 nM	5.540	
		93.13 nM	2.690	
		29.10 nM	-1.190	
		9.09 InM	2.460	1
		2.84 inM	4.170	1
		0.80 mM	1.890	1

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59-0155		i		1
59-0155	316.282	100 10		
	-	100.001uM 31.251uM	-2.9501	
		9.77 uM	1.900	
		3.05 uM	-9.450) -0.220)	
	<u> </u>	953,67 nM	0.690	
		298.02 nM	5.090	
		93.13InM	-3.250	
		29.10 nM	0.5301	<del></del>
		9.09 InM	-1.9001	
		2.84 nM	9.4601	
		0.80InM	1 -1,130	
59-0156	*	- 1	1 1	
59-0156	333.391			
-		100.001uM 31.251uM	5.8401	
		9.77 uM	2.0501	
		3.05 uM	6.890	
		953.67 InM	-0.3701	
		298.02 InM	1 -1.8801	
		93.13 nM	-3.550	<del></del>
		29.10 InM	i -7.3401	
		9.091mM	-1.5901	
		2.84 InM	2.6501	
		0.801nM	2.500	
				*
59-0157	290.366	1	i I	!
59-0157		100.00 uM	-6 440:	
		31.25 uM	14.9201	
		9.77 uM	19.9301	
		3.051uM	11.4401	
		953.67 nM	6.570	
		298.02 nM	-7.190	71
		93.13 nM	0.080	
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995-3810 995-3810 251.289	19.897

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-22.22 224.52 69.46 43.36 30.56
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896-3846	193.267	Mu
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895-6353	167.565	ωM
	16,755	L.
296.408	3.361	_
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895-6643		-
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342.786	2.917	$\dashv$
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895-7828	184.973	м
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655-6653	
890-9683	113.552 uM
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895-888	178.349 uM
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896-0246			İ
896-0246	154.888	uM	
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896-0255	123.000		<u> </u>
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408.504	2.460		
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464.975	2.151
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896-0390 896-0390	
896-050	128.718 uM
358.445	12.872
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896-0536	132.810 uM
378.478	13.281
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896-0354	
	12.150
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188.94 106.12 37.18	
-16.90 87.23 210.25 73.35 28.25	
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-16.32 105.46 115.43 53.86 27.03	

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896-0686	1	1 1
896-0686	191.774 ul	·19.80
	19.177	176.04
260.724	3 835	115.02
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896-0719	- 1	
896-0719	91.950 uA	-6.49
	9.195	187.43
543.774	1.639	127.43
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896-0773	- 1	1 1
896-0773		
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339.609	2.945	175.33
39.60	0.589	221.91
	0.118	52.46 32.99

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896-0819		
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896-0921	17.458	м
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896-0921	17.458	M

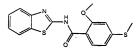
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896-0936	184.314	144
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896-0969	103.798	Ma
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896-1201 896-1201	10.834	*
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896-1301	,	ı
896-1301	97.922	uM
	9.792	
510.612		\dashv
	0.392	\neg
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896-1349	115.883	uM
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431.47	2.318	_
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896-1362	142,749	
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Max: 215 % EC50: < 0.8 nM

59-0072

Max: 121 % EC50: 30 nM

59-0102

Max: 214 % EC50: 200 nM

59-0070

N HO HO

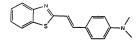
Max: 54 % EC50: 2 μM

59-0144

Max: 340 % EC50: < 0.8 nM

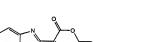
59-0147

FIG. 5A



59-0099

Max: 285 % EC50: 3 nM



Max: 269 % EC50: < 0.8 nM

59-0210

Max: 200 % EC50: 30 nM

FIG. 5B



59-0192 Max: 155 %

EC50: 20 nM

59-0195 Max: 155 % EC50: 20 nM

59-0193 Max: 95 % EC50: 30 nM

59-0196 Inactive

59-0194 Inactive

59-0197 Max: 162 % EC50: 150 nM

59-0202 Max: 155 % EC50: 150 nM

59-0204 Max: 70 % EC50: 50 nM

59-0205 Max: 250 % EC50: < 0.8 nM

59-0206 Max: 150 % EC50: 20 nM

59-0207 Max: 50 % EC50: 100 nM

59-0208 Max: 85 % EC50: 1 uM

FIG. 5C

50-0197 Max: 245 % EC50: 3 nM

59-0078 Max: 380 % EC50: 1 nM

FIG. 6A

59-0199 Max: 170 % EC50: 100 nM

59-0203 Max: 275 % EC50: <1 nM

59-0286 Max: 160 % EC50: 300 nM

59-0285 Max: 200 % EC50: 30 nM

FIG. 6B

R =



59-0030 Max: 90 % EC50: 1 uM

59-0089 Max: 120 % EC50: 5 uM

59-0093 Max: 35 %

59-0094 Max: 45 %

59-0091 Max: 96 % EC50: 1 uM

59-0090 Max: 41 %



59-0092 Max: 50 % EC50: 10 uM

59-0150 Max: 500 % EC50: 1 nM

59-0199 Max: 170 % EC50: 100 nM

59-0198 Max: 135 % EC50: 100 nM

FIG.

59-0145

Max: 300 % EC50: 0.5 uM

59-0450

Max: 270 % EC50: 5 uM

59-0483

Max: 260 % EC50: 3 uM

59-0459

Max: 180 % EC50: 5 uM

59-0480

Max: 180 % EC50: 5 uM

FIG.

FIG. 8 #

Max: 222 % EC50: 20 nM

FIG. 8B

59-0098

X, Y = F, Cl, OMe < 50 % max @ 100 uM

59-0098 Analogs

X, Y = F, Cl, OMe < 50 % max @ 100 uM

59-0096 Analogs

X, Y = F, Cl, OMe < 50 % max @ 100 uM

59-0097 Analogs

8C

FIG.

					Score
1	Ca	l	Max	ZGI Score in	OS Sereen
	Compound		Response of	Ex Vivo	in Ex Vivo
Compoun	Class	EC50	<u>59-0008</u>	Assay	Assay
59-0364	Р				
		0	0	1	
59-0076	Р	0	0	1	
59-0451	P	0	0	1	-
59-0472	Р	0	ا ه	1	
59-0073	P	0	ŏ	'	4.
59-0095	н	??	0.5x (30 uM)		1+
59-0471	P	??	0.5x (100 uM)	1 1	٠ ,
59-0030	Q	??	.7x (1uM)	; l	1,1+
59-0470	P	50 uM	1.2x (100 uM)	ii	1,1+
59-0450	Р	5 uM	2.7x (30 uM)	' 1	
59-0459	P	5 uM	2x (10 uM)	, ,	
59-0064	Q	3 uM	1.5x (? uM)	i	

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59-0008	Q	1 uM			T .
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59-0106	T	300 nM	2x (9 uM)	and Court office	THE REAL PROPERTY.
59-0070	T	200nM	2x (3 uM)		1.1+
59-0097	Н	100 nM?	2x (30 uM)		1,14
59-0096	н	100 nM?	4x (100 uM)		',†
59-0116	н	30 nM	2.5x (3 uM)		1 4.0
59-0210	T	30 nM	2x (3 uM)		1+,2-
59:0098		COMM.	MILES	AND THE OWNER OF THE OWNER OWN	THE SHOP SHOWING
59-0019	Q	10 nM	2.5x (300 nM)	1+.2-	1,1+
59-0078	Q	9 nM	4x (1 uM)	17,2	1,1+
59-0045	н	5 nM	4x (1uM)	1	1 ; 1
50-0197	l a i	3 nM	2.5x (300 nM)	i	1+,2-
59-0099	T	2 nM?	3x (1 uM)		1,1+
59-0282	Q	1 nM	2x (3 uM)		
5946[28C]	Shirely to	21-78VA 7	A SECURE OF THE	elelesta (e. e. e.	1+,2-
59-0072	T	300 pM	2x (uM)	1-1+	1,1+
59-0150	Q	<1 nM	5x (3 uM)	1-2?	1,17
59-0104	T	<1 nM	2x (uM)	1+,2-	
59-0103	т	<1 nM	2x (30 nM)	17,2	• • ·
59-0124	Т	<1 nM	2.5x (1 uM)		1,1+
59-0205	T	<1 nM	2x (2 nM)		1+,2-

H = Hydrazone/Hydrazide (45) Q = Quinoline/Quinoxaline (197) P = Bis-pyridines (145)

T = Benzothiazole (104)

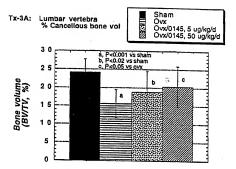
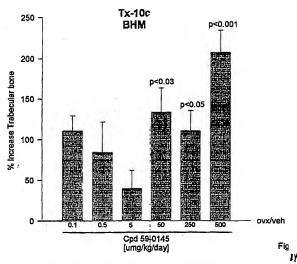


Fig 10



% Increase of trabecular bone over the ovx/vehicle group

Tx-10c

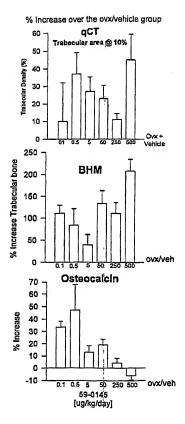


Fig 12

MOLSTRUCTURE	MOL>NNC	MOL WEIGHT NUM	
Cha.	59-0020	266.732	
Chaj	59-0021	284.723	
ಯ್ಯ	59-0022	266.367	
a,	59-0023	239.276	
Q"I,"O	59-0008	254.315	
	59-0024	220.276	
Agr.	59-0025	224.308	
	59-0026	248.29	
ಯ್ಯ	59-0027	250.303	
مرمر	59-0028	226.283	
din	59-0029	249.272	

Figure 13

59-0031	231.3	
	1	
59-0030	233.275	-
59-0032	248.287	
59-0033	248.287	
58-0034	268.343	
59-0035	291.356	
59-0036	262.314	
59-0037	308	
59-0038	241.295	
59-0039	312.352	
59-0040	290.368	
59-0041	501.902	
	59-0032 59-0039 59-0035 59-0036 59-0037 59-0039 59-0040	59-0032 248.287

مدُم	59-0042	281.361	
adam.			
340	59-0043	280.288	
chia.	59-0044	341.21	
Jan Jan	59-0045	283.333	
<i>مِیْدِ</i> کْر	59-0046	389.372	
مرئي	59-0047	303.367	
	59-0048	384.501	
0,50	59-0049	251.29	
αĆ	59-0050	309.364	
00.00	59-0051	251.353	
arch	59-0052	393.276	
ato	59-0053	354.412	

	59-0054	236.276	
\$6 7-	59-0055	425.508	
نچري. نوري	59-0056	512.341	
(), -}-}-(), (,,)	59-0102	284.339	
	59-0057	329.448	
" CONTRACTOR	59-0058	268.34	
	59-0059	375.923	
and a	59-0060	301.391	
	59-0061	255.3	
g-20	59-0062	357.44	
	59-0063	255.344	
wor.	59-0064	276.385	

	59-0065	254.313	
	1000	234.313	
	59-0066	248.33	
0,00	59-0067	254.315	
0,40	59-0068	259,354	
на	59-0069	268.223	
0,0°	59-0019	275.353	
CT S-N-CH, CH,	59-0070	297.38	
صنور	59-0071	291.352	
	59-0072	330.431	
'ooo _{ok}	59-0073	376,303	
- \$ - 4-59+	59-0074	642.735	
44	59-0075	618.775	

nang2

	59-0076	463.208	
+~> ~>+			
XXCODX	59-0077	445.193	
CO TO	59-0078	276.341	
009	59-0079	231,297	
02%	59-0080	284.338	
	59-0081	377.466	
CT of a con	59-0082	222.267	
ಹೊ	59-0083	330.414	
	59-0084	264.283	
	59-0085	278.31	
THE .	59-0086	292.293	
mar.	59-0087	291.309	

59-0088	263.299	
59-0089	281.357	
59-0090	324.425	
59-0091	307.394	
59-0092	281.357	
59-0093	232.285	
59-0094	282.345	
59-0095	299.328	
59-0096	313.355	
59-0097	330.41	
59-0098	325,368	
59-0099	280.393	
	59-0090 59-0092 59-0093 59-0094 59-0096 59-0097	59-0089 281.357 59-0090 324.425 59-0091 307.394 59-0092 281.357 59-0092 281.357 59-0093 232.285 59-0094 282.345 59-0096 313.355 59-0097 330.41

	59-0100		
	58-0100	254.719	
	59-0101	230.232	
	59-0103	313.379	
	59-0104	297.312	
CIN JO OCH	59-0105	267,287	
	59-0106	297.912	
246	59-0107	332.378	
gut.	59-0108	316,311	
Z,a:	59-0109	316.311	
2,00	59-0110	286.286	
₩ ^N	59-0111	152.152	,
OCH ₃	59-0112	149,192	

	59-0113	274.365	
oot	59-0114	475.548	
, ožo.	59-0115	318.87	
\$2,000 au	59-0116	269.302	
M,C CH ₃	59-0117	268.382	
مثنه	59-0118	313.354	
Mac Coll	59-0119	314.335	
335-1364.	59-0120	504.485	
ano	59-0121	245.284	
-Doorto	59-0122	333,389	
Dayso.	59-0123	347,416	
Socie	59-0124	350.44	
			

لمر	59-0125	372.447	1
-1 _Q	į	i	
٥٥٥	59-0126	260.295	
्रें स्कृ	59-0127	329.405	
2000	59-0128	436.34	
%	59-0129	277.713	
	59-0130	287.345	-
\$\frac{1}{2}	59-0131	331.225	
8 / %	59-0132	313.315	
& \ 38	59-0133	327.342	
848 848 B	59-0134	357.367	
8 4 8	59-0135	356.383	
\$\$\frac{1}{2}	59-0136	411.868	

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59-0137	296.712;	
i		
59-0138	340.808	
59-0139	340.424	
59-0140	289.164	
59-0141	437.324	×
59-0142	379.288	
59-0148	447.285	
59-0144	316.404	
59-0145	350.265	
59-0146	246.268	
59-0147	314.364	
59-0148	291.352	
	59-0140 59-0141 59-0142 59-0144 59-0145 59-0146	59-0199 340,424 59-0140 269,164 59-0141 437,324 59-0142 379,288 59-0143 447,285 59-0144 316,404 59-0145 350,265 59-0146 246,268 59-0147 314,364

	59-0149	329.335	0
CO TOT	59-0150	304.391	
	59-0151	278.31	
COTO,	59-0152	266,274	
CO, O.	59-0153	282.729	
ara.	59-0154	262.311	
and	59-0155	316,281	-
arac	59-0156	333.389	
aror	59-0157	290.364	
and.	59-0158	308,335	
	59-0159	308.335	
مامد	59-0160	319,406	*

aric .	;59-0161 !	201.352	
	59-0162	287.321	
W;C	59-0163	249.272	, , , , , , , , , , , , , , , , , , ,
W.W	59-0164	299.332	
	59-0165	250.26	
	59-0166	270.334	
ano	59-0167	263.299	
	59-0168	269.346	
	59-0169	288.309	
and a	59-0170	250.26	
CO ^{LD}	59-0171	238.249	
ania ania	59-0172	306.32	

	59-0173	299.332	
	:		
and a	59-0174	279.298	
art.	59-0175	306.348	
	59-0176	256.288	
CL.D	59-0177	251.248	
CO CO	59-0178	239,267	
CT-O	59-0179	257.292	
مارمين	59-0180	417,487	
arte.	59-0181	313.958	
CONTO	59-0182	288.309	
	59-0183	305.36	
ميائن	59-0184	252.272	

	59-0185		
ar ao	35-0183	345.444	
C - C - C - C - C - C - C - C - C - C -	59-0186	374.362	
CHBr.	59-0187	389,494	
zz. czkor	59-0188	616.784	
axor	59-0189	490.579	
Store Chitate	59-0190	550.631	
asty.	59-0191	584,605	
مهائه.	59-0192	344,389	
	59-0193	344.389	
	59-0194	344.389	
مېنې.	59-0195	318,783	
المراجية المراجية	59-0196	323.202	

(J,) (J, a	59-0197	323,202	
0000	59-0198	261.323	
ما الما الما الما الما الما الما الما ا	59-0199	291.348	
gua	59-0200	342.349	
ana.	59-0201	331.326	
	59-0202	300,337	
	59-0203	292.336	
<i>ه</i> نځر	59-0204	344.389	
مر کری مر	59-0205	318.783	
	59-0206	348.809	
CT, Local	59-0207	348.809	
CINICATE	59-0208	338,308	

	59-0209	247.296	
\$\\\^\\^\\^\\\\\\\\\\\\\\\\\\\\\\\\\\\	59-0210	297.376	
CT CAN	59-0211	264.925	
	59-0212	314.364	
	59-0213	294.333	
- خرجک	59-0214	348.809	
مهم	59-0215	340.401	
Character of the contract of t	59-0216	264.904	
**************************************	59-0217	278.331	
-32-C-	59-0218	292.357	
o y	59-0219	329.379	
J. 500.	59-0220	300.312	

"0 CH	59-0221	283,329	
J. J.	59-0222	309,367	
	59-0223	284.27	
T. Fr	59-0224	330,338	
MA COM	59-0225	256.26	
J. J. Cho.	59-0226	285.258	
\$	59-0227	296,398	
	59-0228	269.846	
Chronical chair	59-0229	239.32	
	59-0230	284.317	
MAS COM.	59-0231	318.399	
No.	59-0232	269.35	



T-0	59-0233	232,285	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	59-0234	281.31	
Q:>-Q-°«	59-0235	251.284	
\$\frac{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}{2}\tag{1}\tag{1}{2}\tag{1}\tag{1}{2}\tag{1}\tag{1}{2}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}\tag{1}	59-0236	280.325	
	59-0237	328.39	
	59-0238	340.401	
ans.	59-0239	330.338	
ana	59-0240	347.393	
sord.	59-0241	344.753	
مثيني.	59-0242	291.286	
dug.	59-0243	455.934	
STEP STEP STEP STEP STEP STEP STEP STEP	59-0244	414.935	

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Š	59-0245	419.887	
300%			
. A. L.	59-0246	675,856	
W.	59-0247	933.385	
	59-0248	247.296	
C	59-0249	298.297	
	59-0250	332,742	
~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	59-0251	386.426	
-1007-6-	59-0252	361.376	
	59-0253	348.809	
	59-0254	328.39	
-\ch-\ch-\ch-\ch-\ch-\ch-\ch-\ch-\ch-\ch	59-0255	376,455	
	59-0256	361.376	

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ئنہ <u>ئ</u> ر	59-0257	348.809		
"" C" C" C"	59-0258	344.389		_
~~;~;~;~;~;~;~;~;~;~;~;~;~;~;~;~;~;~;~	59-0259	332.354	·	_
تَصْہی	59-0260	344,389		
9276z	59-0261	364.423		
	59-0262	398.36		
F. F.	59-0263	368.455		
	59-0264	383.254		
	59-0265	393.26		
	59-0266	328,39		_
A-6-	59-0267	364.423		
,	59-0268	358.416		

	59-0269	342.417	· ·
مَّنِهِ بَيْنَ مَانِي مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ مِنْهِ	59-0270	328,39	
Los	59-0271	360.364	
ang	59-0272	381.838	
<i>من</i> بھی ا	59-0273	345.445	
مبر <i>و</i> ڙ	59-0274	329.379	
\$\frac{1}{2}\hat{2}\hat{2}	59-0275	328.99	
	59-0276	358.273	
	59-0279	327.406	
Z.S.	59-0277	372.375	
Tylin	59-0278	372,375	
	59-0280	294.352	

# 310.419 59-0281 59-0282 305.379 59-0283 306,367 59-0284 305.379 59-0285 293,324 59-0286 292.338 59-0287 308.32 59-0288 278.357 59-0289 351.188 59-0290 351.188 59-0291 342.349

Page 23

372.375

59-0292



2.0	59-0293		
and	39-0293	342.349	
5,00	59-0294	318.278	
Topon	59-0295	312.923	
Tya.	59-0296	316.743	
Typi.	59-0297	329,31	
d,a	59-0298	298,297	
عبْص	59-0299	304.308	
٥٠٠٥	59-0300	236.269	
المالين	59-0301	326.35	
ميني.	59-0302	285.733	
ಮ್ಮ ಕ	59-0303	275.31	
pra.	59-0304	469.178	

China China	59-0305	340.7891	
1,C), L) Oci,	59-0306	308.403	
"Origi	59-0307	300.38	
40,000	59-0308	304.27	
M,C S S S S S S S S S S S S S S S S S S S	59-0309	330.406	
	59-0310	368.378	
	59-0311	287.705	
	59-0313	293,127	
+00°	59-0314	343.134	
W.	59-0315	275.137	
Marity CT.	59-0316	303.191	
Harry.	59-0317	377.579	



7 ~	59-0318	326.6791	
	i	İ	
ಯರಂ	59-0319	282.345	
CLYÓ	59-0320	206.247	
φģ	59-0321	256.691	
Were Chi	59-0322	284.745	
\$\tag{\tau}^{\tau}	59-0923	285.143	
	59-0324	294.301	
	59-0312	309.582	
	59-0325	424.505	
~}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	59-0326	404.543	
~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	59-0327	390.517	
-j	59-0328	418.57	
	ــــــــــــــــــــــــــــــــــــــ		

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~ <del>`</del> `````	59-0329	424.53	
عربي	59-0330	411.47	

† TOTO	59-0354 421.419	
Harr.	59-0342 425.497	

	159-0357	351.366	
your in		Ì	

59-0361	364.292	
59-0362	376.255	
59-0363	218.247	
59-0364	378.318	
59-0365	216.247	
59-0366	384.967	
9-0367	348.289	
	59-0363 59-0364 59-0365	59-0363 216.247 59-0364 378.316 39-0355 216.247 39-0366 384.367

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59-0368	311.339	
59-0369	387.437	
59-0370	328.39	
59-0371	372.399	
59-0372	399.469	
59-0373	299.353)	
59-0374	255,363	
59-0375	261.391	
59-0376	331.351	
59-0377	351.408	
59-0378	285.389	
59-0379	397.379	
	59-0370 59-0370 59-0371 59-0372 59-0373 59-0374 59-0375 59-0377	59-0379 387.437 59-0370 328.39 59-0371 372.399 59-0372 399.469 59-0373 299.353 59-0374 255.363 59-0375 261.391 59-0376 331.351 59-0377 351.408

59-0381 59-0382 59-0383	408.813 408.813 408.813 488.699	
59-0382 59-0383 59-0384	409,813	
59-0383 59-0384	488.699	
59-0384		
	340.405	
i <del>9-</del> 0385	334.377	
9-0386	367.761	
6-0387	923.729	
9-0388	451.23	
9-0389	474.268	
9-0390	487.284	
9-0391	466.245	
	9-0387 9-0388 9-0389	9-0386 367.761 9-0387 323.729 9-0388 451.23 9-0389 474.268 9-0390 487.284

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*X~*	59-0393	395.767	
70°	59-0394	393.195	
12 C C C C C C C C C C C C C C C C C C C	59-0395	370.804	
*The	59-0396	378.18	
بمسية	59-0297	424.808	
* * * * * * * * * * * * * * * * * * *	59-0398	414.234	
in interpretation	59-0399	502.245	
*XXXXX	59-0400	526,388	
	59-0401	354.197	
	59-0402	362.181	
Still Still	59-0403	538.803	

-0404 549.3781 -0405 437.315 -0406 406.233 -0407 349.699
+0406 406.233 +0407 349.699
+0407 349.699
-0408 561.868
-0409 535.821
-0410 340,428
0411 464.294
0412 429.849
0413 459.874
0414 497.846
0415 518,905
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× 1	59-0416	454.834	
Harry Co.	59-0417	484.86	
0,40	59-0418	333,268	
CD.~;p.	59-0419	367.761	
* CCCO	59-0420	352.787	
چرین	59-0421	539.339	
t p	59-0422	351.253	
\$	59-0423	385.698	
* Trade	59-0424	484.188	
, X.	59-0425	400.186	
945x	59-0426	380.756	
*XIII'Q	59-0427	414.213	

*\$\$ <u></u>	59-0428	380.756	
*cc.	59-0429	409.793	
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* \$5°	59-0430	313.669	
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तुर्धर्दे कुर्के कुर्फ़्ते पहुर्दे _{जिस} र्ते जुन्धरे	59-0492	395.767	
dar.	59-0433	407.821	
, Story	59-0435	433.738	
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- + Y	59-0439	525.826	
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*X-righ	59-0440	525.826	
Q-1,1,0 Cm	59-0441	311,339	
	59-0442	303,704	
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\$\$\$Q	59-0444	269,259	
to & Ot	59-0445	404.356	
to Rot to Fot	59-0446	404.356	
å-å	59-0447	352.241	•
₩~W	59-0448	314,39	
, or to	59-0449	394.274	
Lamar Lamar	59-0450	329.281	i,
youd.	59-0451	384.71	

" Q~ Q	59-0452	242.324	
0~0	59-0453	214.271	
"Dura"	59-0454	264.291	
Z~2	59-0455	300.32	_
40-0-	59-0456	308.296	
~40~0~	59-0457	330.342	
موناسمة	59-0458	300,408	
*ara;	59-0459	364.292	
ممخ	59-0460	252.238	
d.o.	59-0461	266.265	
×0~~0	59-0462	280.292	
*COO	59-0463	253.226	

•	59-0464	267.253	
4000g	59-0465	363,26	
	59-0466	315,352	
٥٠٠٠٥	59-0467	212.294	
QO	59-0468	213,283	:
*aa*	59-0469	378.318	
مر <i>دس</i> مهٔ	59-0470	325.293	
Lang.	59-0471	350.261	
tang.	59-0472	351.249	
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£	59-0476	350.265	
Hang's	59-0477	283,256	
*ang	59-0478	351.253	_
2000	59-0479	283.258	
مكسمج	59-0480	332,328	
, your ok	59-0481	363.26	
+Q~~Q+	59-0482	349.277	
prox	59-0483	307,278	
S.~.Q	59-0484	315.246	
2~~3	59-0485	250.3	
*ariax	59-0486	364.292	
wat	59-0487	302.298	

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59-0488	486.259	
59-0489	255.3	
59-0490	322.309	
59-0491	317,269	())
59-0492	289.161	
59-0493	364.248	
59-0494	232.285	
59-0495	299.294	
59-0496	354.33	
59-0497	340,303	
59-0498	282.268	
59-0499	296.294	
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PCT/US97/18864

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#### INTERNATIONAL SEARCH REPORT

International application No. PCT/US97/18864

Α.	CLASSIFICATION	

IPC(6) :Please See Extra Sheet.

US CL : Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation scarched (classification system followed by classification symbols)

U.S. : Please See Extra Sheet.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAS--structure

APS--diaryl, bone, osteo?, BMP

DIALOG-diaryl, bone, osteo?, BMP

DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,441,964 A (BRYANT et al.) 15 August 1995, see entire document.	1-2, 5-28, 55-56
Y	US 5,523,309 A (BRYANT et al.) 04 June 1996, see entire document, especially claim 8.	1-2, 5-28, 55-56
Y,P	US 5,622,974 A (MUEHL) 22 April 1997, see entire document, especially claim 5.	1-2, 5-28, 55-56
Y	WO 93/10113 A1 (TEIKOKU HORMONE MFG. CO., LTD.) 27 May 1993, see entire document.	1-2, 5-28, 55-56
Y	WO 95/10513 A1 (PFIZER INC.) 20 April 1995, see entire document, especially claim 20.	1-2, 5-30, 55-56
Y	US 5,280,040 A (LABROO et al.) 18 January 1994, see entire document.	1-4, 31-43, 55-56

x	Further documents are listed in the continuation of Box	c. 🔲	See patent family annex.	
•	Special categories of cited documents:	7.	later document published after the inter	metional filing date or priority
٠٨٠	document dafining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the appli- the principle or theory underlying the	estion but cited to understand invention
B.	earlier document published on or efter the internetional filing date	.x.	document of particular relevance; the considered novel or cannot be considered	claimed invention cannot be
r.	document which mey throw doubts on priority cleim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	·y•	when the document is taken slone document of particular relevance; the considered to involve an inventive	cleimed invention cannot be
0*	document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such being obvious to e person skilled in th	documents, such combination
p•	document published prior to the internetional filing data but leter than the priority data elaimed	·a.	document member of the same petent	family
Date o	f the actual completion of the international search		nailing of the international sear	rch report

2 6 FEB 1998 28 JANUARY 1998

Name and mailing address of the ISA/US Commissioner of Patents and Trademarka Box PCT Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer CELIA CHANG

Telephone No. (703) 308-1235







C (Continus	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	Chem. abstr. Vol. 127, abstract No. 127:17703, PETRIE et al. Preparation of (hetero) aromatic compounds for treating bone deficit conditions', WO-97/15308 (Eng.).	1-4, 31-43, 55-56
Y	Chem. abstr. Vol. 107, abst. No. 107:109578, WATTS et al. 'Studies on the ligand specificity and potential identity of microsomal antiestrogen-binding sites', Mol. Pharmocol. 1987, 31(5), 541-51.	1-2, 50-56
Y	Chem. abstr. Vol. 108, abstract No. 108:69162, JORDAN et al. 'Effects of antiestrogens on bone in castrated and intact female rats', Breast Cancer Res. Treat. 1987, 10(1), 31-5.	1-2, 50-56
Y	Chem. abstr. Vol. 115, abstract No. 115:8533, SCHWARZ et al. '1,2-diphenyl-1-pyridybut-1-enes - potential antiestrogens. part 1. synthesis' Arch. Pharm. 1991, 324(4), 223-9.	1-2, 44-49, 55-56
Y	NEELAM et al. Structure-activity relationship of antiestrogens: A study using triarylbutenone, benzofuran and triayrlfuran analogues as models for triarylethylenes and triarylpropenones. J. Med. chem. 1989, Vol. 32, pages 1700-1707, see entire article.	1-2, 50-56
Y	VON ANGERER et al. Studies on heterocycle-based pure estrogen antagonists. Ann. N. Y. Academy Sciences. 1995, Vol. 761, pages 176-191, see especially pages 178-180.	1-2, 5-28, 55-56
1		

## INTERNATIONAL SEARCH REPORT

International application No. PCT/US97/18864

Bo	x 1 O	bservations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
Th	is inten	national report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.		Claims Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be earried out, specifically:
3.		Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Во	x II ¢	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
Th	is Inte	mational Searching Authority found multiple inventions in this international application, as follows:
	Ple	case See Extra Sheet.
1.	x	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.		As all searchable claims could be searched without effort justifying an additional fce, this Authority did not invite payment of any additional fee.
3.		As only some of the required additional scarch fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Re	mark (	on Protest  The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.





#### A. CLASSIFICATION OF SUBJECT MATTER:

IPC (6): A61K 31/165, 31/215, 31/33, 31/405, 31/415, 31/42, 31/425, 31/44, 31/47, 31/505, 31/53, 31/535, 31/54

#### A. CLASSIFICATION OF SUBJECT MATTER:

US CL: 514/222.5, 223.2, 223.8, 224.2, 226.5, 229.2, 230.5, 255, 258, 259, 296, 307, 311, 336, 345, 352, 354, 457, 365, 367, 374, 375, 385, 394, 396, 397, 415, 443, 535, 646

#### R FIFLDS SPARCHED

Minimum documentation searched

Classification System: U.S.

514/222.5, 223.2, 223.8, 224.2, 226.5, 229.2, 230.5, 255, 258, 259, 296, 307, 311, 336, 345, 352, 354, 457, 365, 367, 374, 375, 385, 394, 396, 397, 415, 443, 535, 646

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING This ISA found multiple inventions as follows:

This application contains claims directed to more than one species of the generic invention. These species are deemed to leck Unity of Invention because they are not to linked as to form a single invention concept under PCT Rule 13.1. In order for more than one species to be searched, the appropriate additional search fees must be paid. The claims are deemed to correspond to the species as listed in the following manufer.

Group I, claims 3-4 and 31-43 compounds corresponding to Ar1 is condensed six membered heterocyclic ring, Ar2 is various aromatic rings;

Group II, claims 5-28, compounds corresponding to Ar1 is condensed five membered heterocyclic ring, Ar2 is various aromatic rings;

Group III, claims 29-30, compounds corresponding to Ar1 is isolated five membered heterocyclic ring, Ar2 is various aromatic rings;

Group IV, elaims 44-49, compounds corresponding to Ar1 is isolated six membered heterocyclic ring, Ar2 is various aromatic rings;

Group V, claims 50-54, compounds corresponding to Ar1 is phenyl ring. Ar2 is various aromatic rings:

Group IV, claims 1-2, 55-56 in part (remaining compounds)

The following claims are generic: 1-2, 55-56

The species listed above do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2 and ANNEX B section (f), the species lack the same or corresponding special technical features for the following reasons:

The six groups of compounds corresponding to method of treating conditions of deficiency in bone growth, resorption or replacement using structurally distinctive compounds. Each group of compounds as delineated above does not share <u>significant structural</u> element (see Ar1, Ar2 and L are all variables, thus, not common element). In addition, at least now Markush alternative is found in CA 127:17703.